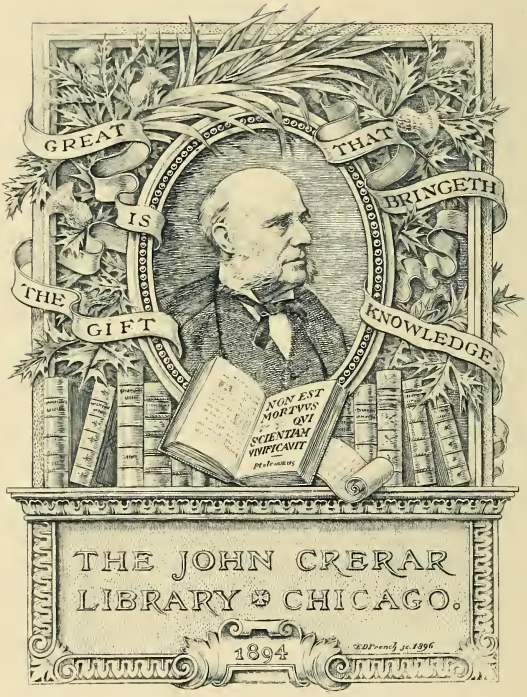
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The George Washington University Bulletin

CATALOGUE NUMBER

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March, 1905

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THE GEORGE WASHINGTON UNIVERSITY

(FORMERLY COLUMBIAN)

BULLETIN

MARCH, 1905

CATALOGUE NUMBER

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Entered October 6th, 1904, at Washington, D. C., as second-class matter under Act of Congress of July 16th, 1894

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CATALOGUE

OF

The George Washington University.

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PART I.

THE UNIVERSITY.

1905.

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The George Washington University.

UNIVERSITY CALENDAR.

1905.

Jan. 31, *Tuesday.*—Mid-Year Examinations completed in the Department of Arts and Sciences.

Feb. 1, *Wednesday.*—Second Term begins.

Feb. 22, *Wednesday.*—Winter Convocation.

March 4, *Saturday.*—Inauguration Day; a holiday.

April 8, *Saturday.*—Annual Meeting of the Alumni Association.

April 21–24, *Friday* to *Monday*, both inclusive.—Easter holidays.

April 26, *Wednesday.*—Davis Prize Speaking.

May 1, *Monday.*—Last day on which Theses may be presented.

May 10, *Wednesday.*—Examinations for Degrees completed.

May 22, *Monday.*—Doctorate Disputation.

May 28, *Sunday.*—Baccalaureate Sermon.

May 26–30, *Friday* to *Tuesday.*—Examinations for admission to the Department of Arts and Sciences.

May 29, *Monday.*—Commencement of the Departments of Medicine and Dentistry.

May 30, *Tuesday.*—Commencement of the Department of Law, Jurisprudence and Diplomacy.

May 31, *Wednesday.*—Commencement of the Departments of Arts and Sciences.

June 5–9, *Monday to Friday.*—Examinations for admission to Department of Medicine.

SUMMER VACATION.

Sept. 20, *Wednesday.*—Fall Examinations in the Department of Medicine.

Sept. 22–26, *Friday* to *Monday.*—Examinations for admission to the Departments of Arts and Sciences, Medicine and Law.

Sept. 27, *Wednesday.*—Academic Year begins in all Departments of the University.

Nov. 23–25, *Thursday* to *Saturday*, both inclusive.—Thanksgiving recess.

RECESS FROM DECEMBER 23, 1905, TO JANUARY 2, 1906, BOTH INCLUSIVE.

1906.

Jan. 20, *Saturday.*—Annual Meeting of the Alumni Association.

Jan. 31, *Wednesday.*—Mid-Year Examinations completed in the Department of Arts and Sciences.

Feb. 1, *Thursday.*—Second Term begins.

Feb. 22, *Thursday.*—Winter Convocation.

April 13–16, *Friday* to *Monday*, both inclusive.—Easter holidays.

April 18, *Wednesday.*—Davis Prize Speaking.

May 1, *Tuesday.*—Last day on which Theses may be presented.

May 16, *Wednesday.*—Examinations for Degrees completed.

May 28, *Monday.*—Doctorate Disputation.

June 3, *Sunday.*—Baccalaureate Sermon.

June 1–5, *Friday* to *Tuesday.*—Examinations for admission to the Department of Arts and Sciences.

June 6, *Wednesday.*—University Commencement.

CHRONOLOGICAL TABLE.

1799. George Washington's last will and testament, urging the establishment of a University in Washington.
1821. Charter granted by Act of Congress creating "The Columbian College in the District of Columbia."
1825. The Medical School organized.
1865. The Law School organized.
1866. Mr. W. W. Corcoran gave the Medical School a building, 1325 H street.
1872. Mr. Corcoran gave $100,000 "to make the College an University."
1873. Act of Congress changing the name to the Columbian University.
1884. University building, Fifteenth and H streets, occupied by various departments of the University.
1884. The Corcoran Scientific School organized.
1887. The Dental School organized.
1893. The School of Graduate Studies organized.
1898. The Department of Jurisprudence and Diplomacy organized.
1898. Incorporation of the George Washington Memorial Association.
1902. Merging of the College, the Corcoran Scientific School, and the School of Graduate Studies into one Department of Arts and Sciences.
1902. Purchase of Van Ness Park as new site for the University.
1903. Conferences between representatives of the Washington Memorial Institution, the George Washington Memorial Association, and the Columbian University with a view to coöperation in graduate work.
1904. January 23. Act of Congress making the University non-sectarian and giving the Board of Trustees power to change the name.
1904. Suggestion of the George Washington Memorial Association that Columbian University change its name to The George Washington University, and its offer to erect a memorial building for graduate study and scientific research at a cost of $500,000 on the new site, accepted by the Board of Trustees.
1904. September 1. Change of name to The George Washington University.
1905. February 22. First Winter Convocation of The George Washington University.
1905. Act of Congress authorizing the incorporation of colleges under the University charter.
1905. Organization of the Columbian College under the University charter and under the same auspices and control extended over it through all of its history.

SOME IMPORTANT PROVISIONS IN THE CHARTER.

Degrees.—The Board of Trustees may confer "such degrees in the liberal arts and sciences to such pupils of the institution or others whom by their proficiency in learning or their meritorious distinction they shall think entitled to them, as are usually granted and conferred * * * and to grant to such graduates diplomas or certificates under the common seal * * * to authenticate and perpetuate the memory of such graduation."

(Act of Congress, 1821.)

A Board of Trustees, "consisting of twenty-two members. The President of the University shall be *ex officio* a member of said Board, and the remaining twenty-one shall be divided in three classes with seven members in each class," the term of service being three years.

(Act of Congress, 1898.)

"The George Washington University shall have, and is hereby, given power to increase the number of its Trustees from time to time by two-thirds vote of the whole number of the Trustees at the time such vote is taken, to a number not exceeding forty-five."

(Act of Congress, 1905.)

Property and Endowment.—"Shall be competent and capable at law and in equity to take * * * any estate, in any messuage, lands, tenements, hereditaments, goods, chattels, moneys, and other effects, by gift, grant, bargain, sale, conveyance, assurance, will, devise, or bequest, of any person or persons whatsoever, * * * and the same to grant, bargain, sell, convey, assure, demise, and to farm let, and place out on interest for the use of said College, in such manner as to them shall seem most beneficial to the institution, and to receive the rents, issues, and profits, income and interest of the same, and to apply the same to the proper use and benefit of the said College."

(Act of Congress, 1821).

"That power is hereby given the Board of Trustees * * * to change the name of said University, * * * and thereupon the University shall be known and designated by the name adopted, and by said new name the said University shall be vested with and convey its real estate, hold, control, and administer endowments and gifts of money and property heretofore and hereafter made for the maintenance of its educational work and do and perform all acts which it now has the power to do under its said charter. Such change of name shall not in any other way change, affect, or modify in any degree the rights, privileges, obligations, and powers of the said University under the charter of February ninth, eighteen hundred and twenty-one, and the amendatory acts thereto."

(Act of Congress, 1904.)

Non-sectarian.—"That persons of every religious denomination shall be capable of being elected Trustees; nor shall any person, either as president, professor, tutor, or pupil, be refused admittance into said University, or denied any of the privileges, immunities, or advantages thereof, for or on account of his sentiments in matters of religion."

(Act of Congress, 1904.)

Power to Organize Colleges.—"That by and with the consent of the said University, colleges may be organized hereunder for the purpose of carrying on, in connection with the University, special lines of educational work in the arts, sciences, and liberal and technical knowledge, such colleges to be educationally a part of the system of the University, but upon independent financial foundations, and to this end any five or more persons desirous of associating themselves for the purpose of establishing a college hereunder may make, sign, and acknowledge before any officer authorized to take acknowledgment of deeds in the District of Columbia, and with the assent of the University in writing, file in the office of the Recorder of Deeds of the said District a certificate in writing, in which shall be stated: * * * Upon filing such certificate the Trustees named therein and their successors shall be a body politic, incorporated by the name and style stated in the certificate, and by that name and style shall have perpetual succession in association with the University, with power in the college to sue and be sued; plead and be impleaded; to acquire, hold, and convey property in all legal ways; to receive by gift, devise, or otherwise, and hold, control, and administer endowments and gifts of money and property thereafter made to it for the maintenance of its educational work; * * * but said college shall not confer academic or honorary degrees; such college shall hold the property of the institution and all moneys and property conveyed to it by purchase, gift, conveyance, will, devise, or bequest solely for the purpose of the educational work specified in said certificate."

(Act of Congress, 1905.)

Affiliated Colleges.—"That said University may enter into affiliated agreements with any institutions of learning outside of the District of Columbia, for the purpose of giving to students of such institutions the educational facilities of said University, and the departments of the Government in the city of Washington which are by law open to students, upon such terms as are mutually agreed upon by the said University and the affiliated institutions."

(Act of Congress, 1905.)

Boards of Visitors.—"Said Board may also appoint a board or boards of visitors for any department or departments of educational work carried on by the University, such boards of visitors to be advisory only."

(Act of Congress, 1905.)

GOVERNING BOARD.

CHARLES WILLIS NEEDHAM, LL.D.,
President of the University and *ex Officio* Member of the Board.

Trustees Whose Term Expires in 1905.

HENRY KIRKE PORTER, LL.D.
JOHN B. LARNER, LL.D.
JACOB H. GALLINGER, A.M.
WAYNE MACVEAGH, LL.D.
FRANCIS G. NEWLANDS, LL.D.
HENRY B. F. MACFARLAND.
ALEXANDER GRAHAM BELL, LL.D.

Trustees Whose Term Expires in 1906.

MYRON M. PARKER, LL.B.
THEODORE W. NOYES, LL.M.
ANDREW J. MONTAGUE, LL.D.
WILLIAM S. SHALLENBERGER, A.M.
DAVID ABBOT CHAMBERS, A.M.
CHARLES D. WALCOTT, LL.D.
CHARLES WILLIAMSON RICHARDSON, M.D.

Trustees Whose Term Expires in 1907.

SAMUEL H. GREENE, D.D., LL.D.
SAMUEL W. WOODWARD.
EDWARD M. GALLAUDET, LL.D.
WILLIAM F. MATTINGLY, LL.D.
EUGENE LEVERING.
GEORGE O. MANNING.*
JOHN JOY EDSON, LL.B.

OFFICERS OF THE BOARD.

WAYNE MACVEAGH, LL.D., Chairman.
EDWARD M. GALLAUDET, LL.D., Vice-Chairman.
WILLIAM AUGUSTIN DE CAINDRY, Auditor.
JOHN B. LARNER, LL.D., Secretary.
JOHN JOY EDSON, LL.B., Treasurer.
CHARLES WENDELL HOLMES, Assistant Treasurer.

*Resigned January 11, 1905.

STANDING COMMITTEES OF THE BOARD OF TRUSTEES.

1905–1906.

Nominations: GREENE, WOODWARD, PORTER, GALLINGER, BELL.
Department of Arts and Sciences: NOYES, GALLAUDET, MACFARLAND.
Department of Medicine and Hospital: RICHARDSON, LARNER, EDSON.
Department of Dentistry: SHALLENBERGER, RICHARDSON, GALLINGER.
Department of Law and Jurisprudence: MATTINGLY, LARNER, MONTAGUE.
Department of Politics and Diplomacy: MACVEAGH, MATTINGLY, NEWLANDS.
Auditing Committee: CHAMBERS, PARKER, SHALLENBERGER.
Endowment: GALLAUDET, LEVERING, WOODWARD, GREENE, MACVEAGH, PARKER, NOYES, BELL, NEWLANDS, CHAMBERS, PORTER, GALLINGER, MACFARLAND.

ADMINISTRATION AND INSTRUCTION.

OFFICERS.

CHARLES W. NEEDHAM, LL.D....President of the University
Otis D. Swett, B.S., LL.M..... .....Registrar of the University

PRESIDENT'S COUNCIL.

CHARLES W. NEEDHAM, LL.D. ..President of the University
James Howard Gore, Ph.D.....Head Professor of Mathematics
Howard Lincoln Hodgkins, Ph.D.....Head Professor of Physics
James Macbride Sterrett, A.M., D.D., Head Professor of Philosophy
Charles E. Munroe, Ph.D.....Head Professor of Chemistry
Hermann Schoenfeld, Ph.D., LL.D.....Head Professor of German
Charles Clinton Swisher, Ph.D .....Head Professor of History
William Allen Wilbur, A.M.....Head Professor of English and Acting Dean of Columbian College
Mitchell Carroll, Ph.D.....Head Professor of Classical Philology
George N. Henning, A.M.....Head Professor of Romance Languages
Percy Ash, C.E....Head Professor in Charge of Division of Architecture
W. F. R. Phillips, M.D.....Dean of the Faculty of Medicine
J. Hall Lewis, D.D.S.....Dean of the Faculty of Dentistry
Henry St. George Tucker, LL.D..... Dean of the Faculties of Law, Jurisprudence and Diplomacy

UNIVERSITY COUNCIL.

Names of members of the University Council are indicated by an asterisk (*) in the list of Members of the Faculties and Teaching Staff.

MEMBERS OF THE FACULTIES AND TEACHING STAFF.

(Arranged, with the exception of the President, in the order of appointment.)

CHARLES W. NEEDHAM, LL.D...PRESIDENT OF THE UNIVERSITY
OTIS T. MASON, LL.D.... ..... Lecturer on Anthropology
*J. FORD THOMPSON, M.D..... .....Professor of Surgery
*ALBERT F. A. KING, A.M., M.D., LL.D.....Professor of Obstetrics and Dean Emeritus of the Faculty of Medicine
*THEODORE NICHOLAS GILL, M.D., Ph.D., LL.D...Professor of Zoölogy
*JAMES HOWARD GORE, Ph.D.... .....Head Professor of Mathematics
*WILLIAM A. MAURY, LL.D..... .....Professor of Law
GEORGE N. ACKER, A.M., M.D.....Professor of Pædiatrics and of Clinical Medicine
*HOWARD LINCOLN HODGKINS, Ph.D..... Head Professor of Physics
*CLEVELAND ABBE, A.M., LL.D..... ... Professor of Meteorology
HENRY C. YARROW, M.D..... .... Professor of Dermatology
*JAMES HALL LEWIS, D.D.S ..... .Dean of the Faculty of Dentistry and Professor of Dental Prosthetics
*D. KERFOOT SHUTE, A.B., M.D.....Professor of Anatomy and of Clinical Ophthalmology
*HENRY CLAY THOMPSON, D.D.S.....Professor of Operative Dentistry
*WILLIAM P. CARR, M.D., Professor of Physiology and of Clinical Surgery
*JOHN MARSHALL HARLAN, LL.D..... Professor of Law
*DAVID J. BREWER, LL.D.. .....Professor of Law
*WILLIAM F. R. PHILLIPS, M.D.....Dean of the Faculty of Medicine, Professor of Hygiene and Assistant Professor of Practical Anatomy
*HERMANN SCHOENFELD, Ph.D., LL.D.....Head Professor of German
*STERLING RUFFIN, M.D.....Professor of the Theory and Practice of Medicine and of Clinical Medicine
JONATHAN R. HAGAN, D.D.S .....Professor of Oral Surgery
WILLIAM K. BUTLER, A.M., M.D.....Professor of Ophthalmology
*WILLIAM G. JOHNSON, LL.M..... ....Professor of Law
THOMAS E. MCARDLE, A.M., M.D..... ...Professor of Minor Surgery
JOHN VAN RENSSELAER, A.B., M.D.....Professor of Clinical Surgery
*JAMES MACBRIDE STERRETT, A.M., D.D..Head Professor of Philosophy
*CHARLES EDWARD MUNROE, Ph.D.....Head Professor of Chemistry
*GEORGE P. MERRILL, Ph.D.....Professor of Geology and Mineralogy
THOMAS M. CHATARD, Ph.D.....Lecturer on Chemical Engineering
WILLIAM T. HARRIS, LL.D... Lecturer on the Philosophy of History
CHARLES W. RICHARDSON, M.D..Professor of Laryngology and Otology
*EDGAR FRISBY, A.M.....Professor of Astronomy
*FRANK WIGGLESWORTH CLARKE, Sc.D., Professor of Mineral Chemistry

*HARVEY WASHINGTON WILEY, Ph.D., M.D...Professor of Agricultural Chemistry
*FRANK HAGAR BIGELOW, A.M., L.H.D.....Professor of Astro-Physics
G. WYTHE COOK, M. D..... ... Professor of Clinical Medicine
*EDWARD ADAMS MUIR, B.S.....Assistant Professor of Graphics
*HERBERT LOUIS RICE, M.S..... Professor of Astronomy
*ERNEST LAWTON THURSTON, C.E.....Professor of Graphics
FRANCIS P. MORGAN, A.B., M.D.....Lecturer on Materia Medica
EDWARD E. MORSE, M.D ..... Assistant Professor of Obstetrics
EDWARD G. SEIBERT, M.D.....Assistant Professor of Chemistry
TIMOTHY W. STANTON, Ph.D.....Instructor in Paleontology
*MELVILLE CHURCH, LL.M..... .....Professor of the Law of Patents
*WILLIAM ALLEN WILBUR, A.M.....Head Professor of English and Acting Dean of Columbian College
*FRANK A. WOLFF, Ph.D.....Professor of Electrical Engineering
*J. WESLEY BOVÉE, M.D..... ....Professor of Gynecology
*THOMAS A. CLAYTOR, M.D.....Professor of Materia Medica and Therapeutics and of Clinical Medicine
R. E. L. HACKNEY, D.D.S.....Demonstrator in Dental Infirmary
GEORGE B. HEINECKE, M.D.....Assistant Demonstrator of Anatomy
JOSEPH C. HORNBLOWER, Ph.B.....Lecturer on Architectural History
A. R. SHANDS, M.D..... Professor of Orthopedic Surgery
WILLIAM H. TRAIL, D.D.S.,Assistant Professor of Dental Materia Medica
VIRGIL B. JACKSON, M.D.....Assistant Demonstrator of Anatomy
*JAMES CARROLL, M.D..... Professor of Bacteriology and Pathology
*CHARLES CLINTON SWISHER, Ph.D.....Head Professor of History and Professor of Politics
*CARROLL D. WRIGHT, LL.D..... .. Lecturer on Statistics and Social Economics
RANDOLPH B. CARMICHAEL, M.D....Professor of Clinical Dermatology
FRANCIS R. HAGNER, M.D.....Clinical Professor of Genito-Urinary Surgery and Venereal Diseases
JOHN B. NICHOLS, M.D.....Professor of Histology
*HENRY A. PRESSEY, B.S.....Professor of Civil Engineering
*WALTER C. CLEPHANE, LL.M..... Professor of Law
CHARLES RAY DEAN, M.Dip., Assistant Professor of European Diplomacy
*JOHN W. FOSTER, LL.D.....Professor of Diplomacy and Arbitration
DAVID J. HILL, LL..D...Professor of European Diplomacy and Treaties
WILLIAM WIRT HOWE, LL.D...Lecturer on Ancient Law, Roman Law, Mediæval and Modern Civil Law
*MARTIN A. KNAPP, LL.D.....Professor of Interstate Commerce Law
EDWARD ELLIOTT RICHARDSON, M.D., M.S ...Assistant Demonstrator of Anatomy
*MITCHELL CARROLL, Ph.D..... Head Professor of Classical Philology
B. L. HARDIN, M.D..... . .....Lecturer on Physical Diagnosis
N. W. HOYLES, K.C..... Lecturer on Canadian Law

*Paul Bartsch, M.S.....Professor of Zoölogy
*Edwin C. Brandenburg, LL.M.....Professor of Law
*Nevil Monroe Hopkins, Ph.D.....Assistant Professor of Chemistry
*John W. Holcombe, A.M., M.Dip.....Assistant Professor of Comparative Politics
*Arthur Peter, LL.M.....Professor of Law
*Charles Sidney Smith, A.M., Assistant Professor of Greek and Latin
Julian M. Cabell, M.D.....Assistant Professor of Obstetrics
W. C. Woodward, M.D., LL.M....Professor of Medical Jurisprudence
*Henry P. Blair, LL.M .....Professor of Law
*Stanton J. Peelle, LL.D .....Professor of Law
Philander Betts, E.E.....Instructor in Electrical Engineering
W. A. Frankland, M.D.....Assistant Demonstrator of Anatomy and Assistant Instructor in Clinical Gynecology
Samuel H. Greene, Jr., M.D.....Instructor in Anatomy
Bernard Herman, B.S..... Instructor in Civil Engineering
Edwin A. Hill, Ph.D..... Instructor in Stereo-Chemistry
Homer S. Medford, M.D..... .....Instructor in Obstetrics
D. W. Prentiss, M.D..... ..Assistant Professor of Histology
L. H. Reichelderfer, M.D.....Instructor in Medicine
C. S. White, M.D.....Assistant Professor of Physiology
*George N. Henning, A.M .. Head Professor of Romance Languages
Edgar P. Copeland, M.D.....Instructor in Surgery
*Percy Ash, C.E.....Head Professor of Architecture, in Charge of Division of Architecture
*John Paul Earnest, A.M., LL.M.....Professor of Law
*Hannis Taylor, LL.D..... Professor of Law
Frederick I. Allen.....Lecturer on Substantive Patent Law
Oscar P. Austin .....Professor of Commerce
J. L. Riggles, M.D.....Instructor in Anatomy
T. S. D. Grasty, M.D... ...Instructor in Bacteriology and Pathology
Carl Hau, A.M., LL.B.....Assistant Professor of Law and Instructor in German
R. M. Little, M.D.....Assistant Demonstrator of Anatomy
H. C. Macatee, M.D...Instructor in Medicine and Clinical Instructor
G. Brown Miller, M.D.....Instructor in Gynecology
George M. Ruffin, M.D..... .....Instructor in Anatomy
Louis A. Simon.....Instructor in Architecture
Albert L. Staveley, M.D.....Clinical Professor of Gynecology
Levi Russell Alden, A.B.....Instructor in History
*Henry St. George Tucker, LL.D....Dean of the Faculties of Law, Jurisprudence and Diplomacy, and Professor of Law
*William Reynolds Vance, A.M., Ph.D., LL.B....Professor of Law, Librarian of Departments of Law and Jurisprudence and Politics and Diplomacy

*Frank Van Vleck, M.E. .....Professor of Mechanical Engineering
J. H. P. Benson, D.D.S..... ....Professor of Operative Technics
Cæsare Louis Constantini, D.D.S.....Demonstrator of Orthodontia Technics
John R. De Farges, D.D.S.. .....Demonstrator in Dental Infirmary
Robert M. Hughes, A.M., LL.B.....Lecturer on Admiralty Law and Procedure
John Wilmer Latimer, LL.B...Clerk of the Moot Court, Department of Law and Jurisprudence
H. W. Lawson, B.S., M.D.....Assistant Demonstrator of Anatomy
Henry J. Lucke, A.B.....Instructor in Applied Mathematics
J. F. Mitchell, M.D.....Assistant Professor of Surgical Pathology
F. L. Molby.....Instructor in Freehand Drawing
Thomas Malcolm Price, Ph.D.... ..... Instructor in Bio-Chemistry
Oscar Quick, A.M .....Instructor in Physics
Joseph D. Rogers, M.D.....Assistant Demonstrator of Anatomy
J. Roland Walton, D.D.S.....Professor of Prosthetic Technics
William A. White, M.D..... Professor of Mental Diseases
Paul Noble Peck, A.B .....Instructor in Mathematics
William Webb Sniffin.....Assistant in French
Francis R. Weller, B.S.....Instructor in Civil Engineering
*John Cleveland Welsh, M.S..... Assistant Professor of Botany
*O. F. Cook, Ph.B.....Professor of Botany
H. H. Donnally, M.D.....Instructor in Bacteriology and Pathology
*Ernest G. Lorenzen, Ph.B., LL.B., J.U.D .....Professor of Law
*George A. Anthony, B.Ph..... Adjunct Professor of Mechanical Engineering
George Stephen Painter, A.B., Ph.D..... Instructor in Philosophy
Eugene Le Merle, M.D.....Clinical Instructor in Nervous Diseases and Assistant Demonstrator of Bacteriology and Pathology
Milo B. Goodall.....Assistant Librarian, Departments of Law and Jurisprudence and Politics and Diplomacy
Joseph M. Heller, M.D.. .....Lecturer on Diseases of the Tropics
Otis D. Swett, B.S., LL.M.....Instructor in Chemistry
Edwin Smith, Jr.....Assistant in Chemistry
Frederick Peake, A.M.....Assistant in English
Leroy A. McGee.. .....Assistant Librarian, Departments of Law and Jurisprudence and Politics and Diplomacy
Clarence E. Reid.....Instructor in Electrical Engineering
Isaac Allison, B.S., E.E..... .....Instructor in Graphics
Ray Smith Bassler, M.S..... Instructor in Paleontology and Stratigraphical Geology
Thomas C. Holloway.....Assistant Instructor in Physiology
George Winfield Scott, Ph.D., LL.B.....Professor of Law
Edgar Buckingham, Ph.D.....Lecturer on Thermodynamics

HARRIET FREEBEY, LL.B. . Librarian, Department of Arts and Sciences
ARTHUR COMPTON. . . . . Librarian, Department of Medicine
FREDERICK E. FOWLE, JR., S.B. . . . . Lecturer on Astro-Physics
THOMAS H. LEGG. . . . . Librarian, Department of Medicine
CHARLES T. BASSETT, D.D.S. . . . Demonstrator in Charge of the Dental Infirmary
*C. WILLIAM A. VEDITZ, Ph.D., LL.B. . . . . Professor of Economics
DE WITT C. CROISSANT, A.B. . . . . Instructor in English
RAYMOND OUTWATER, B.S. . . . . Assistant in Assaying
JAMES C. MONAGHAN, A.M. . . . . Lecturer on the Consular Service
HOMER A. A. SMITH. . . . Assistant Librarian, Departments of Law and Jurisprudence and Politics and Diplomacy
OSCAR L. KEITH, A.M. . . . . Instructor in Romance Languages
GEORGE LANSING RAYMOND, L.H.D. . . . . Professor of Æsthetics
L. H. TAYLOR, M.D. . . . . Assistant Professor of Physiology and Instructor in Clinical Medicine
J. LAWN THOMPSON, M.D. . . . . Assistant in Minor Surgery
JOHN R. WELLINGTON, M.D. . . . Assistant Professor of Clinical Surgery
HENRY R. ELLIOTT, M.D. . . . . Instructor in Physiology
WALTER H. MERRILL, M.D. . . . . Instructor in Electro-Therapeutics
C. L. DAVIS, M.D. . . . . Assistant Instructor in Histology
HENRY M. JEWETT, M.D. . . . . Assistant Instructor in Histology
CHARLES L. BOVÉE, D.D.S. . . . . Demonstrator in Dental Infirmary

ORGANIZATION.

The George Washington University comprehends the following Departments:

DEPARTMENT OF ARTS AND SCIENCES, including
- (*a*) Division of Graduate Studies.
- (*b*) Columbian College.
- (*c*) Division of Architecture.

DEPARTMENT OF MEDICINE:
- (*a*) Faculty of Medicine.
- (*b*) Faculty of Dentistry.

DEPARTMENT OF LAW AND JURISPRUDENCE.

DEPARTMENT OF POLITICS AND DIPLOMACY.

THE UNIVERSITY ASSEMBLY.

The University Assembly meets regularly on Wednesdays throughout the session at 12 o'clock. Members of the faculties and students of all departments are expected to be present. The exercises are regularly presided over by the President. Religious services are held, official announcements are made, and an address is given by the President.

THE UNIVERSITY LIBRARY.

The University Library comprehends (1) the Library of the Department of Arts and Sciences, (2) the Law Library, and (3) the Medical Library. It is in charge of the Library Committee, composed of professors in the various departments who administer the expenditure of the annual appropriation for the purchase of new books and look after the general interests of the Library. Details are given under the sections of the Catalogue devoted to the several departments. The Library of Congress is steadily perfecting its collections of standard works in the various branches of university study, and advanced and graduate students are there given every facility for pursuing their investigations.

ANNUAL COMMENCEMENT AND WINTER CONVOCATION.

The Annual Commencement is held on the first Wednesday in June. The Winter Convocation is held on the 22d of February. Degrees are publicly conferred on Commencement Day and at the Winter Convocation. Members of the faculties and candidates for degrees are expected to appear in academic caps and gowns. Prizes for special excellence in any department are publicly delivered on Commencement Day.

PRIVILEGES IN GOVERNMENTAL INSTITUTIONS OPEN TO UNIVERSITY STUDENTS.

In order to promote research and the diffusion of knowledge, the Congress of the United States has made the scientific resources of the Government accessible to students under the terms of the following joint resolution, approved April 12, 1892:

"*Resolved by the Senate and House of Representatives of the United States of America in Congress assembled,* That the facilities for research and illustration in the following and any other governmental collections now existing or hereafter to be established in the city of Washington for the promotion of knowledge shall be accessible, under such rules and restrictions as the officers in charge of each collection may prescribe, subject to such authority as is now or may hereafter be permitted by law, to the scientific investigators and to students of any institution of higher education now incorporated or hereafter to be incorporated under the laws of Congress or of the District of Columbia, to wit:

1. Of the Library of Congress.
2. Of the National Museum.
3. Of the Patent Office.
4. Of the Bureau of Education.
5. Of the Bureau of Ethnology.
6. Of the Army Medical Museum.
7. Of the Department of Agriculture.
8. Of the Fish Commission.
9. Of the Botanic Gardens.
10. Of the Coast and Geodetic Survey.
11. Of the Geological Survey.
12. Of the Naval Observatory."

Libraries.—In the archives of the State and other Departments and in the statistical bureaus of these Departments are extensive accumulations of original historical documents and data which are invaluable to graduate students in history, political science, economics, sociology, and the allied topics of research. The Library of Congress, the Public Library of the District of Columbia, and the many highly specialized libraries attached to the various Departments of the Government are made easily accessible. Herbert Putnam, LL.D., Librarian of Congress, has said of them :

"There are thus in the city of Washington *thirty-four* governmental libraries freely available for research. These libraries now contain in the aggregate over two million books and pamphlets and over a half million other articles literary in character—manuscripts, maps, music, and prints. If we add to them the contents of the District Library and of the libraries of private associations and institutions * * * we shall have a total not merely greater than is to be found in any other city of this size in the world, but one which in proportion to population represents several times as many volumes *per capita* as exist for public use in *any* other city of the world. * * * Today the Library of Congress is a collection, including duplicates, of over 1,100,000 books and pamphlets and nearly half a million other articles. It is housed in a building devoted to its sole use—the largest library building in the world, the most commodious, the most efficient in equipment for the work which it has to do; a building which provides for ample classification and display of the material, for reasonable growth, and for a multitude and great variety of service; a building which may accommodate a thousand readers at a time and differentiate them to their best advantage."

Museums.—In the collections of the National Museum, the Smithsonian Institution, the Army Medical Museum, the Museum of Naval Hygiene, and the departmental museums are found extensive series of specimens of great value to the student of anthropology, archæology, mineralogy, geology, paleontology, biology in all its branches, and other sciences. In the Patent Office are the records of the many inventions that have contributed so materially during our national existence to modify the conditions under which we live. The Army Medical Museum, which is open for inspection daily, presents a field for study superior to any other institution of the kind, either in this country or in Europe. Its library of medical books

and periodicals is the best in the world. It has an unrivaled collection of anatomical and pathological specimens, illustrating normal anatomy and the results of disease in every form, and an almost unlimited number of other preparations showing the effect of gunshot wounds and surgical injuries of every kind. It also contains almost numberless crania of every human nationality. In the National Museum is found the most complete and best arranged collection of Materia Medica in the world. The drugs are shown in all their processes of manufacture, from the original package to the delicate alkaloid constituting the active principle.

Laboratories.—In the experimental sciences the most notable facilities are available, since in Washington are centered the Weather Bureau, with its appliances for the study of national problems in meteorology; the Coast and Geodetic Survey, from which the surveys of our territory are carried on and by which the figure of the earth and terrestrial magnetism are experimentally determined; the Hydrographic Bureau, which conducts the surveys of foreign coasts and the study of the oceans; the Bureau of Standards, which standardizes the instruments used in measuring mass, volume, heat, light, electricity, and all other magnitudes; the Geological Survey, which investigates the structure of the earth, ascertains our mineral resources, and supervises the sources of supply and means for distribution and control of water for irrigation purposes; the Department of Agriculture, which exists primarily for conducting original investigations for the benefit of agriculture in all its branches, and is therefore provided with extensively equipped laboratories for the study of chemistry, botany, vegetable physiology, entomology, bio-chemistry, bacteriology, comparative pathology, parasitology, the physics and chemistry of the soil, forestry, and microscopy; the Naval Observatory and Nautical Almanac Office, where researches in astronomy and navigation are conducted; the Marine Hospital Service, which deals with national problems in hygiene; the Bureaus of Construction and of Steam Engineering of the Navy, having supervision over the designs and construction of our ships; the Bureau of Yards and Docks, having supervision over the engineering

operations at our navy yards and naval stations ; the Bureau of Equipment, which is charged with the electrical installations for the Navy ; the United States Signal Corps, which has supervision over the electrical installations for the Army ; the Engineer Corps of the Army, which is charged with river and harbor improvements, and the Light-House Board, which controls the system for lighting our navigable waters.

Of chemical laboratories for conducting the tests of materials, and especially for research work, there are now eighteen attached to the different departments at Washington. An extensive new laboratory is being equipped for the Marine Hospital and Public Health Service. This is the national health department of the Government. In this laboratory and in the laboratories of the Department of Agriculture there are superior facilities for all kinds of bacteriological and chemical investigations, and for the study of bio-chemistry, comparative pathology, and parasitology. The new laboratories and hospitals of the Army and the Navy also offer many opportunities for instruction.

Washington offers exceptional opportunities for special or advanced work in Mechanical Engineering. The departments of the Government charged with designing are all located here. In the Bureaus of Steam Engineering and of Construction and Repair, and Ordnance, of the Navy, there is projected a large amount and extensive variety of heavy constructional work. Here is also located the United States Navy or Ordnance Gun Factory. The Ordnance Proving Station is but a few miles down the Potomac. Tours of inspection may be made to the large steel works and shipbuilding plants in Baltimore, and to the shipbuilding plant at Newport News.

PART II.

DEPARTMENTS OF THE UNIVERSITY.

Department of Arts and Sciences.

The Department of Arts and Sciences comprehends the following:

I. Division of Graduate Studies.
II. Columbian College.
III. Division of Architecture.

This Department is open to young men and young women who satisfy its requirements. The session of 1905–1906 begins September 27, 1905. The main building of the University, in which most of the courses of study are conducted, is University Hall, corner Fifteenth and H streets, N. W. The offices of the President, Assistant Treasurer, and Registrar of the University are in this building.

I. DIVISION OF GRADUATE STUDIES.

COMMITTEE ON HIGHER DEGREES.

Charles E. Munroe, *Chairman.*
J. Macbride Sterrett.
Hermann Schoenfeld.

FACULTY.

CHARLES W. NEEDHAM, LL.D....President of the University
Charles E. Munroe, Ph.D..... .....Head Professor of Chemistry
James Howard Gore, Ph.D.....Head Professor of Mathematics
Howard Lincoln Hodgkins, Ph.D.....Head Professor of Physics
James Macbride Sterrett, D.D.....Head Professor of Philosophy
Hermann Schoenfeld, Ph.D.....Head Professor of German
Charles Clinton Swisher, Ph.D.....Head Professor of History
William Allen Wilbur, A.M..... Head Professor of English
Mitchell Carroll, Ph.D.....Head Professor of Classical Philology
George N. Henning, A.M.....Head Professor of Romance Languages
Theodore N. Gill, Ph.D.....Professor of Zoölogy
Cleveland Abbe, LL.D.....Professor of Meteorology

EDGAR FRISBY, A.M.....Professor of Astronomy
FRANK W. CLARKE, Sc.D.....Professor of Mineral Chemistry
HARVEY W. WILEY, Ph.D.....Professor of Agricultural Chemistry
FRANK H. BIGELOW, L.H.D.....Professor of Astro-Physics
GEORGE P. MERRILL, Ph.D.....Professor of Geology and Mineralogy
FRANK A. WOLFF, Ph.D.....Professor of Electrical Engineering
HERBERT L. RICE, M.S.....Professor of Astronomy
HENRY A. PRESSEY, B.S.....Professor of Civil Engineering
O. F. COOK, Ph.B.....Professor of Botany
PAUL BARTSCH, M.S.....Professor of Zoölogy
FRANK VAN VLECK, Ph.D.....Professor of Mechanical Engineering
ERNEST L. THURSTON, C.E.....Professor of Graphics
PERCY ASH, C.E.....Head Professor of Architecture
C. W. A. VEDITZ, Ph.D.....Professor of Economics
GEORGE LANSING RAYMOND, L.H.D.....Professor of Æsthetics
N. MONROE HOPKINS, Ph.D.....Assistant Professor of Chemistry
CHARLES SIDNEY SMITH, A.M..Assistant Professor of Greek and Latin
EDWIN A. HILL, Ph.D.....Instructor in Stereochemistry
THOMAS M. PRICE, Ph.D.....Instructor in Biochemistry
BERNARD HERMAN, B.S.....Instructor in Civil Engineering
PHILANDER BETTS, E.E.....Instructor in Electrical Engineering
TIMOTHY W. STANTON, Ph.D.....Instructor in Paleontology
OTIS T. MASON. LL.D.....Lecturer on Anthropology
WILLIAM T. HARRIS, LL.D.....Lecturer on Philosophy
EDGAR BUCKINGHAM, Ph.D.....Lecturer on Thermodynamics
FREDERICK E. FOWLE, JR., S.B.....Lecturer on Astrophysics
OTIS D. SWETT, B.S.....Secretary

The Division of Graduate Studies is charged with the development and supervision of research courses leading to the higher degrees. This work was organized at this University in 1893 with a view to enable properly equipped students to avail themselves of the advantages which Washington offers for original investigations. Announcements relative to the official matters of this Division are made at the University Assembly, and professors and students in this Division are expected to be governed by them.

HIGHER DEGREES.

The higher degrees conferred in course by the University in this division of the Department of Arts and Sciences are Master of Arts (A.M.), Master of Science (M.S.), Civil Engineer (C.E.), Electrical Engineer (E.E.), Mechanical Engineer (M.E.), and Doctor of Philosophy (Ph.D.).

ADMISSION.

Candidates for admission to courses for higher degrees must present the diplomas they hold, or certificates that they have received such diplomas, to the Registrar of the University, and obtain from him application blanks. When properly filled and signed, these applications are to be submitted to the Chairman of the Committee on Higher Degrees, together with a catalogue of the institution from which the candidate received his diplomas.

Graduates of other institutions desiring to enter The George Washington University for a higher degree must in every case present their diplomas or certificates that they have received such diplomas, together with catalogues of the institutions from which they hold their degrees and certificates of their courses of study at such institutions. All such applications should be accompanied by testimonials as to character and scholarship.

DEGREES OF MASTER OF ARTS AND MASTER OF SCIENCE.

Before a student can be admitted to candidacy for the Master's degree he must give evidence that he has completed a liberal undergraduate course of academic study such as is required by colleges of good standing antecedent to the baccalaureate degree. The President's Council reserves the right to decide in all cases whether the antecedent training fulfils the requirements. Moreover, the courses of study pursued for this degree must be approved by the University Council as qualifying the candidate for pursuing the chosen line of study for the Master's degree.

A candidate for this degree shall pass at least one full year of residence and study at this University, and shall sustain satisfactory examinations on the studies pursued and present an acceptable thesis, together with a bibliography.

Three full courses throughout the year shall be the minimum required as constituting a full year's work. The courses chosen must be passed upon by the President's Council and have the approval of the professors under whom they are to be taken. These courses may consist of special study or research work. In any case they must form a consistent plan of work, for which the candidate's previous work has qualified him. No work done for Bachelor's degree shall be counted again for a Master's degree. Theses in their final form must be presented to the Chairman not later than May 1.

DEGREES IN ENGINEERING.

Before a student can be admitted to candidacy for degrees in Engineering he must give evidence that he has completed a liberal undergraduate course of academic study such as is required by colleges of good standing antecedent to the baccalaureate degree, and which was of such a character as to fit him to pursue to advantage the study of advanced engineering topics. The President's Council reserves the right to decide in all cases whether the antecedent training fulfils the requirements. Moreover, the courses of study pursued for the Bachelor's degree must be approved by the University Council as qualifying the candidate for pursuing the chosen line of study for the degree.

A candidate for a degree in Engineering shall pass at least one full year of residence and study at this University, and shall sustain satisfactory examinations on the studies pursued and present an acceptable thesis, together with a bibliography.

Three full courses will be the minimum required as constituting a full year's work. At least one-half of this work must be in the course in which the degree is sought and the balance in correlated courses. The courses chosen must be passed upon by the President's Council and have the approval of the professors under whom they are to be taken. Theses in their final form must be presented to the Chairman not later than May 1.

DEGREE OF DOCTOR OF PHILOSOPHY.

General Statement.—The degree of Doctor of Philosophy is conferred upon students who have pursued specialized courses in university subjects and engaged in original research in certain of the various departments of letters or science, under university auspices, for a period of not less than three years, and have submitted an acceptable thesis and met all the requirements prescribed. The degree is given, not because of the faithful completion of a course of study according to a stated program for a given length of time, but for high attainments and proved ability to do research work in some special branch of knowledge, as determined by the various tests applied.

Eligibility of the Candidate.—Before a student can be admitted to candidacy for the degree of Doctor of Philosophy he must give evidence that he has completed a liberal undergraduate course of academic study such as is required by colleges of good standing antecedent to the baccalaureate degree, and which was of such a character as to fit him to pursue to advantage researches in the field chosen for graduate work. The President's Council reserves the right to decide in all cases

whether the antecedent training fulfils the requirements. The applicant may be credited with graduate work done at other universities, provided such work is shown to be of grade similar to that required here, but at least one year must be spent in residence at this University and the other requirements of the degree as prescribed must be fulfilled.

Requirements for the Degree.—Candidates for the degree of Doctor of Philosophy shall offer themselves in three topics from the university subjects—one major and two collateral minor studies—the combination to be approved by the President's Council. These must be pursued under the guidance of a committee, consisting of the professors in charge of the departments in which studies are pursued, with the professor in the major subject as Chairman. This committee will determine his division of time, study, and research among the major and minor topics, but in general the major topic should be pursued during the whole time devoted to graduate work, and each minor topic during at least one year. The candidate shall pass satisfactory written examinations upon the three subjects selected. The examinations in the minor topics may be taken at the completion of the courses pursued or at the discretion of the professor in charge. In written examinations the time limit is four hours for the major and three hours for the minor topics. The candidate must show that he possesses a reading knowledge of French and German, as evinced by familiarity with philological or scientific monographs pertaining to his special branches of study. The head professor of a subject may require such knowledge of other subjects as is considered fundamental. The candidate must present a satisfactory thesis, together with an exhaustive bibliography, exhibiting independent research in some branch of his major subject, under the following regulations:

Regulations Regarding Theses.—Theses must be presented not later than May 1 of the year in which the degree is sought. After their acceptance, theses, with their accompanying drawings, are the property of the University, and must be deposited in the University archives, but authors are permitted to make copies. All theses must be typewritten on official thesis paper, which may be obtained from the Assistant Treasurer of the University. No thesis for the degree of Doctor of Philosophy shall be submitted to the University Council until it has been approved by the professor having supervision of the major topic, and also by a co-referee to be appointed by the President's Council. The referees shall present to the Council written reports on the thesis to be filed therewith. The candidate is expected to print his thesis, under the supervision of the professor in charge of his major topic, within one year after

the degree is granted, and shall present one hundred copies to the University, to be distributed among institutions of learning. The candidate must defend his thesis before a board of experts consisting of three specialists of university standing and established reputation in the subject represented by the principal topic, to be appointed by the President's Council.

DOCTORATE DISPUTATION.

A Doctorate Disputation was held publicly in University Hall, May 23, 1904. The theses that were successfully defended, the candidates, and the members of the boards of experts were as follows:

Thesis: A Refutation of Mommsen's Theory on Cæsar's Agrarian Policy.

Candidate: William Macon Coleman, A.B. 1858, A.M. 1892, University of North Carolina.

Board: Hon. Ellis H. Roberts, LL.D., Treasurer of the United States; Professor A. C. McLaughlin, A.M., LL.B., University of Michigan; Edward Farquhar, Ph.D.; Professor Hermann Schoenfield, Ph.D., LL.D., presiding.

Thesis: Improvements in Ship Construction.

Candidate: Frank Van Vleck, M.E. 1884, Stevens Institute of Technology.

Board: Naval Constructor David W. Taylor, U.S.N.; Joseph McMakin, Superintendent of Construction, U.S. Light-house Board; H. D. Williams, M.E., Ordnance Engineer, U.S. Navy Department; Adjunct Professor George A. Anthony, B.Ph., presiding.

Thesis: Influence of John Marshall on the Political History of the United States.

Candidate: Andrew Wilson, B.A. 1886, M.A. 1890, Kansas Normal College; LL.B. 1890, LL.M. 1891, Georgetown University; M.L. 1892, D.C.L. 1893, Yale University.

Board: Baron von Speck Sternberg, LL.D., Imperial German Ambassador; Oliver Wendell Holmes, LL.D., Associate Justice of the Supreme Court; Hon. John B. Henderson, LL.D.; Professor Charles C. Swisher, Ph.D., presiding.

TOPICS FOR STUDY.

The topics and courses from which elections may be made are announced in the second and third sections of University Subjects, Department of Arts and Sciences, and in the similar sections of the curricula of the Departments of Medicine, Law and Jurisprudence, and Politics and Diplomacy. In filling out application blanks the number of the course must be given.

II. COLUMBIAN COLLEGE.

FACULTY.

CHARLES W. NEEDHAM, LL.D....PRESIDENT OF THE UNIVERSITY
WILLIAM ALLEN WILBUR, A.M.....Acting Dean, and Head Professor of English
JAMES HOWARD GORE, Ph.D.....Head Professor of Mathematics
HOWARD LINCOLN HODGKINS, Ph.D.....Head Professor of Physics
JAMES MACBRIDE STERRETT, A.M.,D.D..Head Professor of Philosophy
CHARLES E. MUNROE, Ph.D.....Head Professor of Chemistry
HERMANN SCHOENFELD, Ph.D., LL.D.....Head Professor of German
CHARLES CLINTON SWISHER, Ph.D.....Head Professor of History
MITCHELL CARROLL, Ph.D.....Head Professor of Classical Philology
GEORGE N. HENNING, A.M....Head Professor of Romance Languages
PERCY ASH, C.E.....Head Professor of Architecture
CLEVELAND ABBE, A.M., LL.D .....Professor of Meteorology
EDGAR FRISBY, A.M.....Professor of Astronomy
GEORGE P. MERRILL, Ph.D.....Professor of Geology and Mineralogy
FRANK A. WOLFF, Ph.D.....Professor of Electrical Engineering
HENRY A. PRESSEY, B.S.....Professor of Civil Engineering
ERNEST L. THURSTON, C.E.....Professor of Graphics
PAUL BARTSCH, M.S..... ...Professor of Zoölogy
C. WILLIAM A. VEDITZ, Ph.D., LL.B.....Professor of Economics
FRANK VAN VLECK, M.E.....Professor of Mechanical Engineering
GEORGE LANSING RAYMOND, L.H.D.....Professor of Aesthetics
EDWARD ADAMS MUIR, B.S.....Assistant Professor of Graphics
CHARLES SIDNEY SMITH, A.M..Assistant Professor of Greek and Latin
N. MONROE HOPKINS, Ph.D.....Assistant Professor of Chemistry
JOHN CLEVELAND WELSH, M.S.....Assistant Professor of Botany
BERNARD HERMAN, B.S.....Instructor in Civil Engineering
PHILANDER BETTS, E.E .....Instructor in Electrical Engineering and Mechanical Engineering
EDWIN A. HILL, Ph.D.....Instructor in Chemistry
CARL HAU, A.M.....Instructor in German
LOUIS A. SIMON.....Instructor in Architecture
THOMAS MALCOLM PRICE, Ph. D.....Instructor in Chemistry
OSCAR QUICK, A.M.....Instructor in Physics
F. L. MOLBY.....Instructor in Freehand Drawing
HENRY J. LUCKE, A.B.....Instructor in Applied Mathematics
LEVI RUSSELL ALDEN, A.B.....Instructor in History
FRANCIS R. WELLER, B.S.....Instructor in Civil Engineering

GEORGE S. PAINTER, A.M., Ph.D.....Instructor in Philosophy
ISAAC ALLISON, B.S., E.E.....Instructor in Graphics
R. S. BASSLER, M.S..... Instructor in Paleontology and Stratigraphical Geology
OTIS D. SWETT, B.S..... ...Instructor in Chemistry
PAUL NOBLE PECK, A.B.....Instructor in Mathematics
DE WITT C. CROISSANT, A.B..... Instructor in English
OSCAR L. KEITH, A.M.....Instructor in Romance Languages
JAMES FREDERICK PEAKE, A.M.....Assistant in English
RAYMOND OUTWATER, M.S..... Assistant in Assaying
EDWIN SMITH, JR.....Assistant in Chemistry
OTIS D. SWETT..... .....Secretary

STANDING COMMITTEES OF THE FACULTY.

Committee on the Bachelor of Arts Course.
Professors GORE, SWISHER, CARROLL.

Committee on the Bachelor of Science Course.
Professors HODGKINS, HENNING, MERRILL.

Committee on the Schedule.
Professors HENNING, GORE, HODGKINS.

The session of 1905–1906 begins Wednesday, September 27, 1905.

Columbian College is open to young men and young women.

The main building of the University, in which most of the courses of study in this Department are conducted, is University Hall, corner Fifteenth and H streets, N. W. The office of the Dean of the College is in this building.

ADMISSION.

Every applicant for admission is required to present a testimonial of good character, and also a certificate of standing and regular dismissal from the school or college which he has attended or from the tutor with whom he has studied.

Candidates for admission to the Freshman Class may present certificates of admission or take an examination in the required subjects. Certificates, in lieu of any or all examinations, will be accepted from schools whose work is attested by well-prepared students admitted to the University in previous years, and from schools desiring coöperation with the University, that present evidence of affording adequate preparation

in the required subjects. The Registrar of the University will, on application, furnish certificate blanks to the principals of such accredited schools.

The certificate of the College Entrance Examination Board for the Middle States and Maryland will be accepted in so far as the subjects specified meet the requirements for admission.

The certificate of the Washington high schools covering all the requirements for admission admits students without examination to the courses of the Freshman year.

The certificates of all schools accredited to the University will be accepted in so far as they specifically meet the requirements for admission.

The general requirement for admission is a four-year high school course, or its equivalent, consisting usually of four or five recitations per week in four or more topics. The high school studies which may be presented in satisfaction of the requirements of admission are given in the adjoining table, the unit being four or five recitations per week for one school year. The figures show the relative value of each subject. The list is substantially that set forth in Document No. 8 of the College Entrance Examination Board.

LIST OF PREPARATORY SUBJECTS FOR EXAMINATION.

	Units.		Units.
English	4	History:	
Latin:		English	1
Elementary	2	American	1
Advanced	2	Mathematics:	
Greek:		Elementary Algebra	1
Elementary	2	Advanced Algebra	½
Advanced	1	Plane Geometry	1
French:		Solid Geometry	½
Elementary	2	Plane Trigonometry	½
Advanced	2	Physics	1
Spanish	2	Chemistry	1
German:		Botany	1
Elementary	2	Zoölogy	1
Advanced	2	Physiography	1
History:		Drawing	1
Ancient	1	Shopwork	2
Mediæval and Modern	1		

TERMS OF ADMISSION TO BACHELOR OF ARTS COURSES.

Candidates for admission to the courses leading to the degree of Bachelor of Arts are required to present subjects from the list of High School studies aggregating fifteen units, distributed as follows:

	Units.
English	4
Latin	4
Greek	3
or	
French or German	2
Elementary Algebra	1
Plane Geometry	1
Electives	2 or 3
	15

TERMS OF ADMISSION TO BACHELOR OF SCIENCE COURSES.

Candidates for admission to the courses leading to the degree of Bachelor of Science are required to present subjects from the list of High School studies aggregating fifteen units, distributed as follows:

	Units.
English	4
French or German	2
Elementary Algebra	1
Plane Geometry	1
Physics	1
Chemistry	1
Electives	5
	15

EXAMINATIONS FOR ADMISSION.

The regular examination for admission to the Freshman Class is held in University Hall, southeast corner of Fifteenth and H streets, N. W., in May. A second examination is held at the beginning of the academic year, in September. The following is the schedule for both examinations:

May 26 and September 22, 1905.

Registration of Applicants at the Dean's office	8.30– 9.00
Latin; Advanced French or German	9.00–11.00
Plane Geometry	11.00– 1.00
Elementry Alegebra	2.00– 4.00

May 27 and September 23.

Greek; Physics	9.00–11.00
History	11.00– 1.00
German	2.00– 4.00

May 29 and September 25.

Plane Trigonometry; Botany	9.00–11.00
French	11.00– 1.00
English	2.00– 4.00

May 30 and September 26.

Advanced Algebra; Zoölogy; Drawing	9.00–11.00
Solid Geometry; Spanish	11.00– 1.00
Chemistry; Physiography	2.00– 4.00

Subjects offered for admission, but not named in the schedule of examinations, will be arranged for as occasion arises.

Unless admitted by certificate, every undergraduate candidate for a degree is required to pass an examination.

DEFINITION OF REQUIREMENTS.

ENGLISH.

(Counting four units.)

Candidates are expected to be familiar with the elements of rhetoric, and no candidate will be accepted whose work is obviously defective in spelling, punctuation, idiom, or division into paragraphs.

The examination in English consists of two parts, one to test general reading, the other to show the results of more careful study and practice.

1. *Reading and Practice.* The candidate will be required to write a paragraph or two on each of several topics chosen by him from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The candidate should read all the prescribed books, but knowledge of them will be regarded as less important than ability to write good English.

The books set for this part of the examination are:

Addison and Steele's Sir Roger de Coverley Papers	1905	'06	'07	'08
Carlyle's Essay on Burns	1905	....	....	....
Coleridge's Ancient Mariner	1905	'06	'07	'08
George Eliot's Silas Marner	1905	'06	'07	'08
Goldsmith's Vicar of Wakefield	1905	....	....	....
Irving's Life of Goldsmith	.....	'06	'07	'08
Lowell's Vision of Sir Launfal	1905	'06	'07	'08
Scott's Ivanhoe	1905	'06	'07	'08
Scott's Lady of the Lake	.....	'06	'07	'08
Shakespeare's Julius Cæsar	1905	....	....	....
Shakespeare's Macbeth	.....	'06	'07	'08
Shakespeake's Merchant of Venice	1905	'06	'07	'08
Tennyson's The Princess	1905	....	....	....
Tennyson's Gareth and Lynette, Lancelot and Elaine, and the Passing of Arthur	.....	'06	'07	'08

2. *Study and Practice.* This part of the examination presupposes the thorough study of each of the works named. It involves knowledge of the subject-matter, literary form, literary history, grammatical and logical structure.

The books set for this part of the examination are:

Burke's Speech on Conciliation with America	1905	'06	'07	'08
Macaulay's Essay on Addison	1905	....	....	....
Macaulay's Essay on Milton	1905	'06	'07	'08
Macaulay's Life of Johnson	.....	'06	'07	'08
Milton's L'Allegro, Il Penseroso, Comus, and Lycidas	1905	'06	'07	'08
Shakespeare's Julius Cæsar	.....	'06	'07	'08
Shakespeare's Macbeth	1905	....	....	....

LATIN.

The minimum requirements in Latin and Greek are in substantial agreement with those set forth in Document 8 of the College Entrance Examination Board, which carry out the recommendations of the Committee of Twelve of the American Philological Association:

The Elementary Requirement (counting two units).

a. i. Latin Grammar: The inflections; the simpler rules for composition and derivation of words; syntax

of cases and the verbs; structure of sentences in general, with particular regard to relative and conditional sentences, indirect discourse, and the subjunctive; so much prosody as relates to accent, versification in general, and dactylic hexameter.

ii. Latin Prose Composition: Translation into Latin of detached sentences and easy continuous prose based upon Cæsar.

b. Cæsar: Any four books of the Gallic War, preferably the first four, or their equivalent.

The Advanced Requirement (counting two units).

a. Cicero: Any six orations from the following list, but preferably the first six mentioned:

The four orations against Catiline, Archias, the Manilian Law, Marcellus, Roscius, Milo, Sestius, Ligarius, the Fourteenth Philippic.

b. Vergil: The first six books of the Æneid.

c. Advanced Prose Composition, consisting of continuous prose of moderate difficulty based on Cicero.

d. Sight Translation, based on prose of no greater difficulty than the easier portions of Cicero's orations.

GREEK.

The Elementary Requirement (counting two units).

a. i. Greek Grammar: The topics for the examination in Greek grammar are similar to those detailed under Latin grammar.

ii. Greek Prose Composition, consisting principally of detached sentences to test the candidate's knowledge of grammatical constructions.

The examination in grammar and prose composition will be based on the first two books of Xenophon's Anabasis.

b. The Xenophon: The first four books of the Anabasis.

The Advanced Requirement (counting one unit).

a. Homer: The first three books of the Iliad (omitting II, 494, to end).

b. Sight Translation, based on prose of no greater difficulty than Xenophon's Anabasis.

FRENCH.

Elementary (counting two units). Candidates in Elementary French must have a good knowledge of the essential parts of grammar, with stress on pronouns and on regular verbs and the common irregular verbs. They must know the principles of pronunciation; must be able to translate simple English sentences or easy connected prose into French, and to translate accurately ordinary modern French prose. Candidates must have translated not less than 450 duodecimo pages by at least four different authors, of which amount at least one-third must be history. Candidates must have had a two-years' course of at least four periods per week.

Advanced (counting two units). Candidates in Advanced French must have partly translated, partly read, in addition to the requirements for Elementary French, at least 1,000 pages of difficult French of several different authors, including history, fiction, drama, and poetry. Candidates must have had a four-years' course of at least four periods per week.

Fraser and Squair's French Grammar or Grandgent's Essentials of French Grammar is recommended.

SPANISH.

(Counting two units.)

Candidates in Spanish must have a good knowledge of grammar, including syntax, with stress on pronouns and verbs, regular and irregular. They must know the principles of pronunciation. They must be able to translate simple English sentences or easy connected prose into Spanish, and to translate accurately fairly difficult modern Spanish prose and verse. Candidates must have translated not less than 500 pages by at least four different authors, of which amount at least one-fourth must be history or drama. Candidates must have had a two-years' course of at least four periods per week.

GERMAN.

Elementary (counting two units). Candidates in Elementary German must have had a two-years' course of at least four periods a week. They must be able to read fluently at sight and to translate easy narrative prose and poetry. An accurate knowledge of an elementary German grammar is requisite, to be tested by the translation into German of some fifteen sentences. About 300 pages of graduated narrative prose, one short play, and such poetry as is usually found in a First Reader will be considered an adequate preparation.

Advanced (counting two units). Candidates in Advanced German must have had a four-years' course of at least four periods a week. They should be well trained in the syntactical laws of the language, have read about 800 pages of good literature in prose, preferably such prose works as are given in the Report of the Committee of Twelve of the Modern Language Association, and poetry, especially dramas by Lessing, Schiller, and Goethe, and studied an elementary history of German literature. German composition should comprise a number of short themes upon assigned historical or literary topics, lives of the authors read, etc.

HISTORY.

In this subject special importance is attached to preparation in geography.

Ancient (counting one unit).

(*a*) Greek History, through the Roman Conquest; as much as is contained in Myers' History of Greece.

(*b*) Roman History; as much as is contained in Allen's History of the Roman People.

Mediæval and Modern European History (counting one unit). As much as is contained in Myers' History of Mediæval and Modern Europe.

English History (counting one unit). As much as is contained in Larned's History of England.

American History (counting one unit). As much as is contained in Fiske's History of the United States.

MATHEMATICS.

Elementary Algebra (counting one unit).

i. Algebra to Quadratics:

The four fundamental operations for rational algebraic expressions, factoring, highest common factor, lowest common multiple, complex fractions, the solution of equations of the first degree containing one or more unknown quantities, radicals, including the extraction of the square root of polynomials and numbers, and fractional and negative exponents.

ii. Quadratics, etc. :

Quadratic equations and equations containing one or more unknown quantities that can be solved by the methods of quadratic equations, problems depending upon such equations, ratio and proportion, and the binomial theorem for positive integral exponents.

Advanced Algebra (counting one-half unit).

i. Progressions, etc. :

The progressions, the elementary treatment of permutations and combinations, and the use of four and five place tables and logarithms.

ii. Series, etc.:

Undetermined coefficients, the elementary treatment of infinite series, the binomial theorem for fractional and negative exponents, and the theory of logarithms.

iii. Theory of equations.

Determinants and the elements of the theory of equations, including Horner's method for solving numerical equations.

Plane Geometry (counting one unit).

The solution of simple original exercises and numerical problems.

Solid Geometry (counting one-half unit):

Properties of straight lines and planes, of dihedral and polyhedral angles, of projections, of polyhedrons, including prisms, pyramids, and the regular solids; of cylinders, cones, and spheres, of spherical triangles, and the measurement of surfaces and solids.

Plane Trigonometry (counting one-half unit).

The definitions and relations of the six trigonometrical functions as ratios, proof of important formulæ, theory of logarithms and use of tables, solution of right and oblique plane triangles.

PHYSICS.

(Counting one unit.)

It is recommended that the candidate's preparation should include :

a. Individual laboratory work, comprising at least thirty-five exercises well distributed over the subjects of physics.

b. Instruction by lecture-table demonstrations.

c. The study of at least one standard text-book, supplemented by the use of many and varied numerical problems. The metric system should be familiar to the student.

The laboratory note book must be submitted for inspection, whether the candidate is admitted on certificate or by examination.

CHEMISTRY.

(Counting one unit.)

The candidate's preparation in chemistry should include :

a. Individual laboratory work, comprising at least forty experiments of a character analogous to those set forth in Document No. 8 of the College Entrance Examination Board.

On application for admission to this University, every candidate seeking credit in chemistry must present a note book in which he has recorded the steps and the results of his laboratory exercises. This note book must contain an index to its contents, and must bear an endorsement of the teacher who directed the student, written in ink on the inside of the cover, in the following form :

I certify that this note book is the true and original record of experiments actually performed by ——— in the chemical laboratory of ——— school during the year 19—.

(Signed) ——— ———,

Title ——— [*Instructor*] *in Chemistry.*

b. Instruction by lecture-table demonstrations to be used in instructing the student as to methods of manipulation and as a basis for questioning him upon the general principles involved in his laboratory experiments.

c. The study of at least one modern text-book, to the end that the student may gain a comprehensive and connected view of the most important facts and laws of elementary chemistry.

Requirements. The ground to be covered should include the following: The chief physical and chemical characteristics, the isolation and the recognition of the following elements and the preparation and study of their principal compounds : *Oxygen*, *hydrogen*, *carbon*, *nitrogen*, *chlorine*, *bromine*, *iodine*, *fluorine*, *sulphur*, phosphorus, silicon, potassium, *sodium*, calcium, magnesium, *zinc*, copper, mercury, silver, aluminum, *lead*, tin, *iron*, manganese, chromium.

The more detailed study should be confined to the italicized *elements* (as such) and to a restricted list of compounds, such as water, hydrochloric acid, carbon monoxide, carbon dioxide, oxides of nitrogen, nitric acid, ammonia, sulphur, dioxide, sulphuric acid, hydrogen sulphide, sodium hydroxide, ammonium hydroxide.

Attention should be given to the atmosphere (constitution and relation to animal and vegetable life), flame, acids, bases, salts, oxidation and reduction, crystallization, combining proportions by weight and volume, calculations founded on these and on Boyle's and Charles's laws, symbols, formulas, equations and nomenclature, atomic theory, atomic weights, nascent state, natural groupings of the elements, solution (solvents and solubility of gases, liquids, and solids), strength of acids and bases, conservation and dissipation of energy, chemical energy and electrolysis, and of valence, electrolytic dissociation, osmosis, mass action in a very elementary way. Chemical terms should be clearly understood, and the student should be able to illustrate and apply the ideas that they embody. The theoretical topics are not intended to form separate subjects of study, but to be taught only so far as is necessary for the correlation and explanation of the experimental facts. The facts should be given as examples from various classes and not as isolated things.

BOTANY.

(Counting one unit.)

Candidates must have had at least one year's full work in Botany, comprising the General Principles of Morphology, Physiology, and Ecology, as well as in the Natural History of Plant Groups and Classification. Bergen's Foundations of Botany and Atkinson's Elementary Botany indicate the general scope of the work required.

ZOÖLOGY.

(Counting one unit.)

In general, Zoölogy is not recommended as an entrance subject unless the subject has been preceded or accompanied by that of physics and chemistry, which form the most desirable groundwork for collegiate courses in biology. The entrance examination in zoölogy is designed to test, first, the candidate's practical acquaintance with the natural history, structure, and relationships of some of the leading types of animals, and, second, his knowledge of the more essential facts of physiology.

Practical Zoölogy. A practical examination of at least ten common animal types, and the presentation by the candidate of a laboratory note book, certified by the teacher, as evidence of a laboratory course actually performed. Examples of the types suggested are the frog, fish, mollusk, insects, crustaceans, annelid, starfish, hydroid (hydra), and protozoan. In the examination less weight is laid on a knowledge of anatomical *minutiæ* than on the ability to recognize the specimen and its allies, to indicate its relationship, and to point out the leading features of its life history, organization, and physiology.

Elementary Physiology. The nature of foods and their history in the body; the essential facts of digestion, absorption, circulation, secretion, excretion, and respiration; the motor, nervous, and sensory functions, and the structure of the various organs by which these operations are performed. Martin's *Human Body* (briefer course) forms a suitable basis for this work, but teachers are recommended as far as possible to correlate the physiology of man and the higher animals with that of the lower forms studied in the course of practical zoölogy.

PHYSIOGRAPHY.

(Counting one unit.)

The equivalent of Davis's Physical Geography, together with an approved laboratory and field course of at least forty exercises actually performed by the candidate.

The candidate will be required to present at the time of his examination the original note book in which he recorded, with dates, the steps and results of his laboratory exercises. This book, which should contain an index of subjects, must bear the endorsement of the teacher, certifying that it is a true record of the candidate's work.

DRAWING.

(Counting one unit.)

The candidate's preparation in drawing should include simple geometrical, plane, and solid figures and simple pieces of machinery, with a fair knowledge of the rules of perspective and light and shade as applied in freehand sketching. The candidate should be able to reproduce from a flat copy with enlargement or reduction of size.

For courses in architecture, the preparation should include, in addition to the above, the drawing of simple pieces of archi-

tectural ornament (a Greek anthemium, a design of iron scroll-work, etc.).

For courses in engineering, the preparation should include the copying of machinery details.

For courses in general science or in science for teachers, the preparation should include the copying of still life and simple plant forms.

SHOPWORK.

Candidates who have been trained in manual-training schools or in commercial shops in the use of tools and in the ordinary processes employed in the working of wood or metal may receive admission credits for such work. They should submit letters from their teachers or employers, stating the character of the work in which they have been trained and the time given to it. The amount of credit will vary according to circumstances, but it will not exceed two units.

ADMISSION TO ADVANCED STANDING.

Candidates for admission to advanced classes in any department are examined in all indispensable preliminary studies.

Due credit is given for properly certified courses of study pursued in other colleges and universities.

ADMISSION TO SPECIAL COURSES.

All the courses of instruction are open to students of suitable age and attainments who wish, without reference to any degree, to pursue special studies. Candidates are examined in each special study. They must be familiar with the subjects preliminary to the studies which they wish to pursue.

AUDITORS.

Certain courses are open to the public on payment of an auditor's fee. Auditors are without responsibility for class exercises or examinations, and they will receive no credit on the records.

REQUIREMENTS FOR DEGREES.

The undergraduate degrees offered by Columbian College are Bachelor of Arts and Bachelor of Science. To be recommended for either of these degrees, the student must be registered in the College for at least one academic year, must satisfy the admission requirements, and must complete at least sixty hours of undergraduate courses with the requisite grades.

The studies to be taken by a student during each year of his college course, while largely elective, should be chosen with careful attention to their relation to each other and to his aims and purposes for the future. The prescribed studies, as a rule, should be taken during the first two years of his course, with such electives as his time and preparation make wise. In general, the courses to be taken during the early years are those given under the first section in University Subjects, while courses under the second section are elected during the latter part of the course. No time limit is prescribed, and the degree is given when the total of prescribed and elective courses is completed.

BACHELOR OF ARTS COURSE.

To be recommended for the degree of Bachelor of Arts, the student must complete courses of study aggregating at least sixty units. The unit of credit is one hour of recitation or lecture work per week for one academic year. Laboratory hours in Chemistry and in Architecture count one-third unit each, in other subjects one-half unit each. Thirty-five of these units are prescribed studies and twenty-five are electives. The prescribed studies, usually completed within the first two years, are as follows:

	Units.
English, 1, 3, 4	6
Mathematics, 3, 5, 7	3
Latin or Greek, 1, 3	6
French or German	6
Chemistry or Physics, 1, 2	5
Philosophy, 1	3
Economics	3
History, 1	3

Of the twenty-five hours of electives, fifteen, at least, must be taken from the second section.

The sequence in which *required studies* may be taken to advantage is shown in the following distribution of subjects through the first two years:

First Year.	Units.	*Second Year.*	Units.
Latin	3	Latin	3
English	3	English	3
Mathematics	3	French or German	3
French or German	3	Philosophy	3
History	3	Physics or Chemistry	5
Economics	2		

BACHELOR OF SCIENCE COURSES.

To be recommended for the degree of Bachelor of Science, the student must complete courses of study aggregating at least sixty units. The unit of credit is one hour of recitation or lecture work per week for one academic year. Laboratory hours in Chemistry and in Architectnre count one-third unit, in other subjects one-half unit each. Forty of these units must be selected from First Section courses and must include the topics named below, and twenty of the units must be selected from Second Section courses.

Since there are certain options and electives in the studies that may be offered in satisfaction of the admission requirements, there will be corresponding variations in the courses that must be taken by students; but *in every case the following subiects must be completed:*

	Courses.
English	1 or 2 and 4
Mathematics	3, 5, 7, 9, 11, or 2, 4, 12, 14
French	1, 3, or 2, 4
German	1, 3, or 2, 4
Chemistry	1 and 2 or 3
Physics	1, 3

Electives:

List 1. History, Economics, Philosophy.
One two-hour course.

List 2. Astronomy, Botany, Geology, Mineralogy, Meteorology, Zoölogy.
Two two-hour courses.

If any of these topics be presented and accepted in satisfaction of the admission requirements, additional topics must be taken, so that the total work for the degree shall aggregate

sixty units, divided, as mentioned above, between the First Section courses and Second Section courses.

If a student elect studies largely in one line of work, a diploma may be issued stating the course for which the degree is given.

The sequence in which *required studies* may be taken to advantage is shown in the following distribution of subjects through the first two years :

First Year.	Units.	*Second Year.*	Units.
Mathematics	3	Mathematics	3
English	3	French or German	3
French	3	Physics or Chemistry	5
German	3		
Chemistry or Physics	5		

CHEMICAL COURSE.

For the Degree of Bachelor of Science in Chemistry.

All required studies enumerated on page 48, and the following topics :

Architecture	1
Chemistry	3, 6, 20, 21 including part of 4, 23, 24, 25
Graphics	1, 3

ENGINEERING COURSES.

Courses of study are arranged for students preparing for Civil, Electrical, and Mechanical Engineering, which lead to the degrees of Bachelor of Science in Civil Engineering, Bachelor of Science in Electrical Engineering, and Bachelor of Science in Mechanical Engineering. Graduates in these courses are admitted to the corresponding course leading to the Engineer's degree under the Faculty of Graduate Studies.

The requirements for these degrees are as follows :

For the Degree of Bachelor of Science in Civil Engineering.

All required studies enumerated on page 48, and the following topics :

Applied Mathematics	20, 21, 22
Architecture	1
Chemistry	6
Civil Engineering	1, 2, 3, 4, 20, 21, 22
Graphics	1, 8, 20
Mathematics	20 and 22 or 21 and 22

For the Degree of Bachelor of Science in Electrical Engineering.

All required studies enumerated on page 48, and the following topics:

Applied Mathematics	20, 21, 22
Architecture	1
Chemistry	6
Electrical Engineering	1, 2, 3, 20, 21, 22, 23, 24
Graphics	1, 3, 8
Mathematics	20 and 22 or 21 and 22
Mechanical Engineering	1, 2, 22

For the Degree of Bachelor of Science in Mechanical Engineering.

All required studies enumerated on page 48, and the following topics:

Applied Mathematics	20
Architecture	1
Chemistry	6
Graphics	1, 3, 8
Mathematics	20 and 22, or 21 and 22
Mechanical Engineering	1, 2, 3, 20, 21, 22, 23, 24, 25

UNDERGRADUATE AND PROFESSIONAL COURSES.

Students in the last year of their undergraduate course may take as part of their electives the first year's work in the Department of Medicine or of Law, and may receive credit for as many units of work, not exceeding ten, as would be granted for the same time in courses under University Subjects.

PRIZES.

Only candidates for degrees may compete for these prizes.

STAUGHTON AND ELTON PRIZES.—The Staughton Prize, for excellence in the Latin Language and Literature, and the Elton Prize, for excellence in the Greek Language and Literature, founded by the Rev. Romeo Elton, D.D., of Exeter, England, consist of two gold medals, annually awarded to the best scholar in each of these languages.

RUGGLES PRIZES.—The Ruggles Prizes, for excellence in Mathematics, founded by Professor William Ruggles, LL.D., consist of two gold medals, annually awarded upon examination to the best two scholars in Mathematics.

MUNROE PRIZE.—Professor Munroe offers a gold medal to that student from any Washington high school or the Manual Training School who shall attain the highest mark in Chemistry among those passing the entrance examinations, and shall remain in regular attendance for one year.

CLASS OF '96 JAMES MACBRIDE STERRETT, JR., MEMORIAL MEDAL.—This prize is annually awarded to that student taking Course 1 in Physics who obtains the highest average in a special examination on a given subject and in the writing of an essay on an assigned topic.

DAVIS PRIZES.—The Davis Prizes, for excellence in Elocution, founded by the Hon. Isaac Davis, LL.D., of Massachusetts, consist of three gold medals, annually awarded to the successful competitors in a public contest. Members of the Senior Class are eligible to compete for these prizes.

DAUGHTERS OF THE AMERICAN REVOLUTION PRIZES.—These prizes, founded by the Daughters of the American Revolution of the District of Columbia, consist of two gold medals, awarded annually to the two students in the graduating class who, having maintained a high standing in the regular courses in History during three years, shall produce the best essays upon an assigned topic of American history.

THOMAS F. WALSH PRIZE IN IRISH HISTORY.—This prize is a gold medal, awarded to that student in the graduating class who, having maintained a high standard in the regular courses of History, shall produce the best essay based upon the study of some period of Irish history.

E. K. CUTTER PRIZE.—The E. K. Cutter Prize in English was founded by the late Marion Kendall Cutter. The endowment is a fund of one thousand dollars, the income of which is given annually as a prize "for excellence in the study of English." The prize will be awarded to that member of the graduating class whose record in English, combined with general excellence, shows most marked aptitude and attainment in English studies.

WILLIE E. FITCH PRIZE.—The Willie E. Fitch Prize, for highest excellence in all branches of Chemistry, founded by James E. Fitch, Esq., in memory of his son, consists of fifty dollars, which is awarded annually for the best examination in Chemistry.

SCHMIDT PRIZE.—Mr. Fred. A. Schmidt offers a prize to the student who attains the highest standing in Descriptive Geometry, Trigonometry, and Analytic Geometry.

MUTH PRIZE.—Geo. F. Muth & Co. offer a set of Drawing Instruments to the student taking Machine Drawing who makes the highest average record in that subject and in the previous year's Mechanical Drawing.

PRIZE AWARDS, 1903–04.

Staughton Prize	Paul Noble Peck.
Elton Prize	Paul Noble Peck.
Class of '96 James Macbride Sterrett, Jr., Memorial Medal	Katherine Harrington.
Davis Prizes — First Prize	Royal Wilbur France.
Davis Prizes — Second Prize	Ethel Louise Gallagher.
Davis Prizes — Third Prize	George Ellis Kirk.
Daughters of the American Revolution Prizes	Henry W. Bradshaw.
	Albert Holle Homrighaus.
Thomas F. Walsh Prize	Henry W. Bradshaw.
E. K. Cutter Prize	Catharine Virginia McIlhenny.
Schmidt Prize	George L. Townsend.
Muth Prize	George L. Townsend.

SCHOLARSHIPS.

Applications for scholarships should be filed with the Dean not later than September fifteenth. All scholarships except the Kendall Scholarship and the University Scholarships are awarded for one year only, but they may be renewed. Students holding scholarships pay the matriculation, library, laboratory, and graduation fees.

KENDALL SCHOLARSHIP.—The Kendall Scholarship, founded by the late Hon. Amos Kendall, is annually conferred on that student from any of the Washington High Schools or from the Manual Training School who attains the highest average in the May entrance examinations. This scholarship continues throughout the undergraduate course.

UNIVERSITY SCHOLARSHIPS.—The University offers also six scholarships, each continuing throughout the undergraduate course, to be awarded annually to members of the graduating classes of the high schools of Washington and of the Manual Training School. The scholarships will be divided among the several schools in proportion to the number of students in attendance upon each. Three scholarships are offered to young men and three to young women. No scholarship will be awarded to a candidate whose examination average is below 80 per cent. Candidates for these scholarships will take the

May entrance examinations for the undergraduate course leading to the degree of Bachelor of Arts or the degree of Bachelor of Science, as they shall elect, and on the results of these examinations the scholarships will be assigned. Holders of these scholarships will be expected to pursue a regular course, classical or scientific, leading to a degree.

DAVIS SCHOLARSHIP.—This is the income of a fund of one thousand dollars given to the University in October, 1869, by Hon. Isaac Davis, of Massachusetts.

MARY LOWELL STONE SCHOLARSHIP.—This scholarship was founded by a woman in memory of a woman student of science. It consists of a fund of two thousand dollars, the income from which is to be paid to needy women students of science in the University; it will be awarded by the President's Council.

HENRY HARDING CARTER SCHOLARSHIPS.—These scholarships, founded by Mrs. Maria M. Carter in memory of her husband, Henry Harding Carter, consist of four scholarships of the annual value of fifty dollars each, and may be awarded to deserving students who are preparing for the civil engineering profession.

MARIA M. CARTER SCHOLARSHIP.—This is the income of a fund of one thousand dollars given to the University in 1871 by Mrs. Maria M. Carter.

FARNHAM SCHOLARSHIP.—This is the income of a fund of one thousand dollars given to the University in 1871 by Mrs. Robert Farnham.

ADMIRAL POWELL SCHOLARSHIPS.—The Admiral Powell Scholarships were founded by the late Admiral Powell, U. S. Navy. The income from this endowment is for "the free education of such young men as may desire to take advantage of the said endowment by way of their preparation for entrance into the Naval Academy at Annapolis, Maryland, or such as may fit them to become mates or masters in the Merchant Marine Service of the United States," and of "such apprentices as, having filled their time in the great steam manufactory establishments of the country, may apply for appointment from civil life in the Steam Engineer Department of the United States Navy." The number of scholarships awarded each year will be determined by the income from the endowment. Each scholarship will entitle the beneficiary to free tuition for one year. Such special courses of study are offered to each student as will give him the instruction needed to accomplish the purpose for which he is awarded the scholarship.

These scholarships are especially applicable to those who intend to come up for examination as warrant officers in the Engineer Department of the Navy, or to those who desire to fit for responsible positions in the mercantile marine.

The subjects to be taken by a student will vary according to his preparation and according to the purpose for which he has been awarded the scholarship, but a year's work can be selected from the following topics:

	Hours.
Navigation and Nautical Astronomy	6
Algebra and Geometry	3
Trigonometry	1½
Mechanical and Machine Drawing	2
Meteorology	2
English	3
French	3
German	3
Spanish	3
International Law.	1
Commercial Geography	1
Admiralty Law	½
Boilers	1
Measurement of Power	3
Dynamo theory	2
" testing	3

COURSES IN MEDICINE, LAW, AND DIPLOMACY.

Certain courses in the Departments of Medicine, Law, and Diplomacy are open to students in the Department of Arts and Sciences. In general the courses may be taken during the last year of undergraduate work and during the years of graduate work; but the number of courses in these departments to be taken by any student will be limited, and the courses must be properly related to his principal subjects of study for his degree.

Such courses may be elected from the following subjects in the Department of Medicine:

Anatomy,
Neurology,
Bacteriology,
Bio-Chemistry and Physiologic Chemistry,
Histology,
Hygiene,
Pathology,
Physiology.

Descriptions of the courses in these subjects are to be found in the announcements of the Department of Medicine.

Such courses may be elected, also, from the following subjects in the Departments of Law and Jurisprudence, and Politics and Diplomacy:

History of the Common Law,
Ancient and Roman Law,
Mediæval and Modern Civil Law,
Constitutional Law,
International Law,
European Diplomacy and Treaties,
Diplomacy and Treaties of the United States,
Statistics and Social Economics,
Comparative Politics.

Descriptions of the courses in these subjects are to be found in the announcements of the Departments of Law and Jurisprudence, and Politics and Diplomacy.

DAVIS PRIZE SPEAKING.

The Davis Prize Speaking is held in University Hall on the Wednesday after the Easter holidays. The Davis Prizes were founded by Hon. Isaac Davis, of Massachusetts, in 1847. The original endowment was five hundred dollars, "proceeds of which will afford three premiums, in cash or gold medals, of the value of $5, of $10, and of $15 annually—these premiums or prizes to be distributed annually to such members of the senior class as shall have made the greatest progress in elocution since their connection with the College."

The award of these three prizes is determined by a public speaking contest, in which the participants deliver original orations. Senior students wishing to enter the competition should report to the Head Professor of English not later than five weeks before the contest, and submit their orations not later than three weeks before the contest. The prizes are awarded by a committee consisting of three members, selected by the President's Council.

ENOSINIAN SOCIETY.

The Enosinian Society, a literary association formed by the students of Columbian College, to which any University student is eligible, meets regularly for the purpose of improvement in debate and composition.

This society had its beginning on March 6, 1822, during the first session of Columbian College, when a number of students held a meeting "for the purpose of establishing a debating society." Two Enosinian prizes are given annually and are publicly delivered at the Commencement. They are the following :

DEBATERS' PRIZE.—A gold medal given by the Society for proficiency in debate.

GORE PRIZE IN PARLIAMENTARY LAW.—A gold medal given by Prof. James Howard Gore for proficiency in parliamentary law.

THE COLLEGE CHAPEL.

Chapel services are conducted in West Hall on Monday, Tuesday, Thursday, and Friday mornings throughout the academic year, at 9.10 o'clock. The College Chapel is conducted by the Faculty, and all students are invited to help sustain the service. On Wednesdays, at 12 o'clock, the College students participate in the University Assembly, which is held in University Hall.

The Dean of the College will confer with students on questions concerning their welfare and will coöperate with them in furthering the ethical and religious interests of the College.

Official announcements are made regularly at the University Assembly, and professors and students are expected to be governed by them.

III. DIVISION OF ARCHITECTURE.

FACULTY.

CHARLES W. NEEDHAM, LL.D....PRESIDENT OF THE UNIVERSITY
PERCY ASH, B.S.....Head Professor of Architecture, in charge of the Division of Architecture
JAMES HOWARD GORE, Ph.D.....Head Professor of Mathematics
HOWARD LINCOLN HODGKINS, Ph.D..... Head Professor of Physics
CHARLES E. MUNROE, Ph.D.....Head Professor of Chemistry
HERMANN SCHOENFELD, Ph.D., LL.D.....Head Professor of German
CHARLES CLINTON SWISHER, Ph.D.....Head Professor of History
WILLIAM ALLEN WILBUR, A.M.....Head Professor of English
MITCHELL CARROLL, Ph.D.....Head Professor of Classical Philology
GEORGE N. HENNING, A.M.....Head Professor of Romance Languages
HENRY A. PRESSEY, B.S.....Professor of Civil Engineering
ERNEST L. THURSTON, C.E.....Professor of Graphics
JOSEPH C. HORNBLOWER, Ph.B.....Lecturer on Architectural History
N. MONROE HOPKINS, Ph.D.....Assistant Professor of Chemistry
EDWIN A. HILL, Ph.D.....Instructor in Chemistry
CARL HAN, A.M.....Instructor in German
LOUIS A. SIMON.....Instructor in Architecture
F. L. MOLBY.....Instructor in Freehand Drawing
OTIS D. SWETT, B.S.....Secretary of Faculty and Instructor in Chemistry
DE WITT C. CROISSANT, A.M.....Instructor in English
OSCAR L. KEITH, A.M.....Instructor in Romance Languages
PAUL N. PECK, A.B.....Instructor in Mathematics
EDWIN SMITH, JR.....Assistant in Chemistry

The session of 1905–1906 begins Wednesday, September 27, 1905.

Courses in Architecture are open to young men and young women. The general courses of study are conducted in University Hall, corner of Fifteenth and H streets, N. W. The technical courses in Architecture are conducted at 813 Fifteenth street and the courses in water colors and drawing from life and the antique at the Corcoran Gallery of Art.

ADMISSION.

Every applicant for admission is required to present a testimonial of good moral character, and also a certificate of stand-

ing and regular dismissal from the school or college which he has attended or from the tutor with whom he has studied.

Candidates for admission to the Freshman Class may present certificates of admission or take an examination in the required books and subjects.

The general requirement for admission is a four-year high school course, or its equivalent, consisting usually of four or five recitations per week in four or more topics.

Candidates for admission to the course leading to the degree of Bachelor of Science are required to present subjects from the list of high school studies aggregating fifteen units, distributed as follows:

	Units.
English	4
French or German	2
Elementary Algebra	1
Plane Geometry	1
Physics	1
Chemistry	1
Electives	5
	15

The list of high school studies and the definition of requirements in all preparatory subjects are given on pages 37–46 of this Catalogue.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN ARCHITECTURE.

To be recommended for the degree of Bachelor of Science in Architecture the student must be registered in the Division of Architecture for at least one academic year, he must satisfy the admission requirements, and must complete the prescribed course for the degree. This is a four-year course. General culture studies are pursued through the first two years, about half of the time being devoted to them. The rest of the course is devoted to architectural work. The units of credits is one hour of recitation or lecture per week throughout the academic year. Laboratory hours count one-third units each.

First Year.	Units.
English	3
Mathematics	3
French, Italian, or German	3
Chemistry	5
Drawing, Instrumental and Freehand	14
Shades, Shadows, and Perspectives	2

Second Year.

	Units.
English	3
Mathematics	3
French, Italian, or German	3
Physics	5
Rendering, Design	10
Freehand Drawing	4
History of Architecture	3

Third Year.

	Units.
Mechanics of Material (First term) } Graphic Statics (Second term) }	3
Building Construction	2
Sanitary Engineering of Buildings	1
History of Architecture	3
Pen and Ink Rendering	2
Design and Sketch Design	18
Drawing from the Antique	4

Fourth Year.

	Units.
Design and Sketch Design—Thesis	22
Modeling (Architectural)	2
Pen and Ink Rendering	2
Classical Archæology	2
History of Painting	1
Building Construction	2
Special Lectures	1
Drawing from Life	4
Water Colors	3

A special course of three years may be arranged for qualified students who wish to take the purely technical work of the Architectural course. Special students may receive a certificate on the satisfactory completion of the course for which they are registered.

PRIZE.

The Washington Architectural Club offers membership in the Club as a prize in Architecture. In 1903–04 this prize was awarded to Charles R. Lombard.

COURSES OF INSTRUCTION.

UNIVERSITY SUBJECTS.

University subjects are divided into three sections, in accordance with the following requirement of an ordinance adopted by the Board of Trustees October 13, 1902 :

ARTICLE IV.—*Development of University Subjects.*

SECTION 1. Subjects shall be divided into three sections, as follows :

(1) The fundamental section, covering two years' work; this section to be assigned to students in the general-culture courses.

(2) The advanced section, not exceeding three years; this section to be assigned to students specializing for literary, scientific, professional, or industrial pursuits.

(3) The original research section; this section to be assigned to students pursuing a subject for discovery and broader culture.

The courses in the first section are sometimes recommended to graduate students, but are not ordinarily counted toward the Master's degree. The courses in the second section may be taken by students in the second year of their course only by special permission of the professor in charge. The courses in the third section are open to undergraduates only on the recommendation of the instructors, and no undergraduate student shall take in one year more than one course in the third section. When an announced course has not been applied for by at least three students, candidates for a degree, the instructor shall be at liberty to withdraw the course. First-section courses are numbered from 1 to 19, inclusive ; second-section courses from 20 to 39, inclusive ; third-section courses are numbered on from 40. The number of hours, unless otherwise specified, indicates hours per week throughout the year. The unit of credit is one hour of recitation or lecture work per week for one academic year ; laboratory hours in Chemistry and Architecture count one-third unit each, in other subjects one-half unit each. Sixty hours of credit is the minimum requirement for the Bachelor's degree. Laboratories and drawing-rooms will be open from 9.30 a. m. till 10 p. m., with competent assistants in charge to

direct students. No student is admitted to a course unless he fulfils all of the preliminary requirements for that course, or otherwise satisfies the instructor that he is prepared to pursue it. Every student must make his election of courses so as to avoid conflict between the hours appointed for recitations. As changes may be made in the hours of certain courses in Columbian College for 1905–06, students should before definitely planning their course consult the schedule for that year.

APPLIED MATHEMATICS.

HENRY J. LUCKE, A.M. ..... *Instructor*

Second Section. For Undergraduates and Graduates.

20. Analytical and Applied Mechanics. Tuesday, Thursday, and Saturday, at 4.50.

21. Hydraulics. Friday, at 5.40.

22. Strength of Materials and Theory of Elasticity. Wednesday and Saturday, at 5.40.

ARCHÆOLOGY, CLASSICAL.

MITCHELL CARROLL, M.A., Ph.D ..... *Head Professor*

Second Section. For Undergraduates and Graduates.

For a proper appreciation of the languages, literatures, and history of Greece and Rome, some knowledge of ancient life and art is essential. To meet this need, the following cycle of courses in Classical Archæology, extending over a period of three years, is offered. Each course consists of weekly lectures and conferences illustrated by maps, plans, photographs, and lantern slides, supplemented by a prescribed course of reading and the preparation of papers on special topics. The work constitutes a two-hour elective for undergraduate students, or either the lectures on Mondays or the class conferences on Thursdays may be taken as a one-hour elective. With additional work, the course serves as a topic for the M.A. degree. A knowledge of Greek or Latin is not essential.

20. Topography and Monuments of Athens and Rome. A study of the history, topography, and monuments of the chief centers of ancient life. Not given in 1904–05. Given in 1906–07.

21. Life of the Greeks and Romans. Selected topics in Private and Public Life: family organization; the state, the constitution,

assemblies, magistracies; the ancient house, its architecture, furniture, and ornamentation; education, occupation, and amusements; dress, arms, and armor; religious festivals, rites, and ceremonies; and similar themes. Monday and Thursday at 4.50.

22. Greek and Roman Architecture and Sculpture. Given in 1904–05.

In all these courses considerable use will be made of the illustrative material accessible in the Library of Congress, the Corcoran Gallery of Art, the Smithsonian Institution, and the Halls of the Ancients.

ARCHITECTURE.

PERCY ASH, B.S.....*Head Professor*
JOSEPH C. HORNBLOWER, Ph.B..*Lecturer on the History of Architecture*
LOUIS A. SIMON.....*Instructor*
FRANK L. MOLBY.....*Instructor in Freehand Drawing*

Instruction in drawing from the antique and in water-colors is given at the Corcoran Gallery of Art by Mr. Messer, Mr. Brooke, Miss Mueden, and Mr. Moser.

The following architects have given criticisms on design, in addition to the regular corps of instructors: Theo. W. Pietsch, Architecte diplomé par le Government; Geo. Oakley Totten, Jr., Walter G. Peter, E. Frerè Champney, Chas. Mason Remey.

First Section. Primarily for Undergraduates.

1. Freehand Drawing. This course consists of drawing, in charcoal, of simple objects, in which particular attention is paid to the study of values and form. First division, Monday, day, at 5.40; second division, Saturday, at 5.40. Mr. MOLBY.

2. Freehand Drawing. For architectural students primarily. This course begins with drawing, in charcoal, of simple objects, such as cubes, cones, etc., and is followed by a series of drawings from architectural casts. Particular attention is paid to the study of values and form. Monday and Saturday, at 4.50. Mr. MOLBY.

3. Architectural Drawing and Elementary Design. The Five Orders of Architecture: This course includes the study of the Five Orders of Architecture, the use of India ink and water-color rendering. In addition to this, all students are required to measure some building in the city, of their own selection, then from the notes thus obtained draw it out, accu-

rately cast the shadows, and make a completed Rendu in India ink or color. Lectures on the Five Orders on Tuesday, at 4.50, and instruction in the use of color and rendering in India ink on Thursday, at 4.50, and at least ten additional hours in the drafting-room. Professor ASH.

4. Shades, Shadows, and Perspectives. A course in orthographic projections, shades, shadows, and perspectives. Wednesday and Friday, at 4.50. Mr. SIMON.

5. Rendering and Design. In this course the instructions in India ink rendering and the use of water colors given in the first year are continued, personal instruction being given to each student on Thursday, at 4.50. At least nine (9) additional hours each week to be devoted to the problems in design. Six problems and seven sketch problems constitute the course in design. Criticism on Monday, Wednesday, and Friday, at 10 a. m. Professor ASH.

6. Freehand Drawing. The drawing from architectural casts in both charcoal and pencil, being a continuation of the course given in the first year, is intended to fit the student for his subsequent freehand drawing from the antique. Monday and Saturday, at 4.50, and at least two additional hours. Mr. MOLBY.

Second Section. For Graduates and Undergraduates.

20. History of Architecture. History of classical architecture down to the fall of the Roman Empire. Illustrated. Two lectures per week. Tuesday and Thursday, at 10.30, and one additional hour for research. Mr. HORNBLOWER.

21. Building Construction. Elements of frame construction and interior finish. Wednesday and Friday, at 5.40. Mr. SIMON.

22. Sanitary Engineering of Buildings. One hour per week. Professor PRESSEY.

23. History of Architecture. History of renaissance architecture down to modern times. Illustrated. Two lectures per week, and one additional hour for research. Monday and Friday, at 4.50. Professor ASH.

24. Pen and Ink Rendering. A study of the works of the best draftsmen, with practice in the use of the pen as a means of architectural expression. Two hours per week.

25. Design and Sketch Design. This course embraces problems in plan, in archæology, and in sketch design. Three problems in archæology, three plan problems, and seven sketch

problems constitute the course. The student is required to spend at least eighteen hours in the drafting-room each week. Criticism on Monday, Wednesday, and Friday, at 10. Professor ASH.

26. Drawing from the Antique. To be eligible for this course the student must have passed satisfactorily Course No. 6. He is required to devote at least four hours per week to working from the antique in the Corcoran Gallery of Art under the criticism of the instructor on that subject. Criticism 9 to 12 daily by Miss MUEDEN. Criticism 7 to 10 daily by Mr. BROOKE.

27. Design and Sketch Design. Thesis. Problems of an advanced character are assigned to the student during the first term. Three advanced problems and four sketch problems are required of the student in addition to his thesis. The three months preceding graduation are devoted to the production of the thesis designs, the subject for the thesis being selected by the student. The student is required to spend twenty-two hours each week in the drafting-rooms. Criticism is given three times a week by Professor ASH.

28. Modeling (Architectural). This course will be arranged and an instructor appointed at an early date.

29. Pen-and-ink Rendering. This course is a continuation of the work begun in the third year. The work consists largely of the making of pen-and-ink drawings from photographs of architectural subjects. Two hours per week are devoted to this work.

30. Classical Archæology. A study of the life, art, topography, and monuments of Athens and Rome. Monday and Thursday, at 4.50. Professor CARROLL. (See section on Archæology.)

31. History of Painting. This course will comprise a series of illustrated lectures on painting. The details of the course will be given later. To be given every other year.

32. History of Sculpture. This course will comprise a series of illustrated lectures on sculpture and will be given every other year.

33. Building Construction. Masonry, cements, foundations, soils, etc. Two hours per week. Mr. SIMON.

34. Special Lectures. A series of illustrated lectures on the principles of design and building construction by visiting architects.

35. Drawing from Life. To complete this course the student is required to spend at least four hours per week in the Life Class at the Corcoran Gallery of Art. Only students who have satisfactorily passed Course No. 26 are admitted to this class. Men's life; women's life. Criticism by Mr. MESSER.

36. Water Colors. To complete this course the student is required to spend at least three hours per week at the Corcoran Gallery of Art under the criticism of Mr. MOSER.

37. A special course in design will be given, consisting of six regular and seven sketch problems. This course is intended to prepare students for the Beaux Arts problems. Criticisms Monday, Wednesday, and Friday, at 7.30. Professor ASH.

38. In this course the problems prepared by the New York Society of Beaux Arts Architects will be offered to the students, and the judgments will be made by the jury in New York city under the rules of the society. Criticisms Monday, Wednesday, and Friday, at 7.30. Professor ASH.

39. Summer Work. Each architectural student is required during the summer vacation to make at least twenty-four sketches from nature, or to do an equivalent amount of work, namely, four weeks in an architect's office, or the measured drawings of an existing monument of architecture.

Third Section. Primarily for Graduates.

40. Composition as applied to architecture.

41. Advanced design.

NOTE.—Courses Nos. 37 and 38 are designed for student draftsmen who wish to supplement their regular office work with special training in design rendering, etc.

ASTRONOMY.

EDGAR FRISBY, A.M.....*Professor*
HERBERT LOUIS RICE, M.S.....*Professor*

First Section. Primarily for Undergraduates.

1. General Descriptive Astronomy. Young's General Astronomy, with occasional lectures illustrated with the stereopticon. The student is taught the use of star charts in locating the constellations. When circumstances permit, students will

observe telescopic objects of interest, and also make some of the fundamental observations of practical astronomy, which will be used in the solution of problems. Monday and Thursday, at 5.40. Professor FRISBY.

Second Section. For Undergraduates and Graduates.

20. Mathematical and Theoretical Astronomy. Theory taught mainly by lectures, supplemented by the solution of problems and practical computations. The course includes the discussion and application of various formulæ for interpolation and tabular differentiation and the practical precepts for correcting errors by means of differences; considerations respecting the elliptic form of the earth's meridian, and the derivation of formulæ for computing the "latitude reduction" and $\log \rho$; transformations of the various coördinate systems employed in spherical astronomy; the construction and use of the American Ephemeris, or Nautical Almanac, including computations of the principal quantities contained in that fundamental work; a discussion of the laws of planetary (elliptic) motion, and the application of Lagrange's Theorem to the solution of Kepler's problem and similar questions; the definition of the elements of an orbit, and their use in fixing the position of a planet in space; the reduction of heliocentric coördinates to geocentric, including the corrections of nutation and aberration. A thorough training in mathematics is presupposed. Four hours. Professor RICE.

Third Section. Primarily for Graduates.

40. The Theory of Computing the Parabolic Orbit of a Comet from Three Observations, with an ephemeris. Encke's Memoir on Olbers' Method, Abhandlungen, Erster Band. Books of reference: Watson's Astronomy, Oppolzer's Bahnbestimmung der Cometen und Planeten. Professor FRISBY.

41. The Theory of Computing an Elliptical Orbit, or any Conic Section, from Three or Four Observations. Gauss' Theoria Motûs. Books of Reference, as above. Professor FRISBY.

42. An outline of the Method of Least Squares. Encke, Chauvenet, Brünnow, Watson, Johnson. Professor FRISBY.

44. The Theory of General Perturbations. Tisserand, Méchanique Céleste. Books of reference: Laplace, Méchanique Céleste; Lagrange, Méchanique Analytique, and Memoirs; Leverrier, Annals of the Paris Observatory; Hansen, Ausein-

andersetzung; Pontécoulant, Système du Monde, etc. Professor FRISBY.

45. General Spherical Astronomy. Chauvenet's or Brünnow's Spherical Astronomy. Professor FRISBY.

50. On the construction and use of the American Ephemeris and Nautical Almanac. Embracing a complete discussion, both theoretical and practical, of all the important elements and data contained in this fundamental work. A practical course for computers. Professor RICE.

51. Spherical and Mathematical Astronomy. A more general course than the preceding, covering the most important of the subjects discussed in Chauvenet's or Brünnow's works on Spherical and Practical Astronomy, and including such portions of Theoretical Astronomy (such as Watson's) as are not especially concerned with the determination of orbits. Professor RICE.

52. On the Theory and Practice of Interpolation. A special course, including a full discussion of the properties of differences, the various formulæ and methods of interpolation, tabular differentiation, and mechanical quadrature; also other important problems concerned, with the tabular values of functions, for those desiring special acquaintance with this fundamental and important subject. Professor RICE.

53. A reading course in the History of Astronomy. Such works as Grant's History of Physical Astronomy, Clerke's History of Astronomy during the Nineteenth Century, etc., are used as texts. Professor RICE.

ASTRO-PHYSICS.

FRANK HAGAR BIGELOW, A.M., L.H.D..... .....*Professor*
FREDERICK E. FOWLE, JR.....*Lecturer*

Third Section. Primarily for Graduates.

40. Solar Physics. The constitution of the sun, the sun-spots, faculæ, prominences, and the coronas; the circulation of the solar mass and the distribution of these phenomena in latitude and longitude, their variations in the 3-year, 11-year, and 35-year periods; the grounds for the theory that the sun is a magnetized body, associated with electric currents and an ionized radiation. Professor BIGELOW.

41. Cosmical Electricity and Magnetism. The two fields of force emanating from the sun, their modes of propagation

through the ether as electromagnetic and magnetic types of energy, and their relation to the heat and light received by the earth; the laws of radiation and the determination of the solar constant; the variations in the solar spectrum due to changes in the physical states of the sun's and the earth's atmospheres. Authors: Maxwell, Poincaré, J. J. Thomson, Hertz, Heaviside, Webster, with references to the recent literature in scientific journals. Professor BIGELOW.

42. Terrestrial Magnetism. The distribution and secular variation of the magnetism of the earth, its periodic and irregular disturbances by solar action; magnetic observatories, instruments, and methods of observing; atmospheric electricity and ionization; terrestrial radioactivity and emanations; auroras, magnetic storms, and their relation to the gases of the atmosphere, with a history of the progress of science in these lines of research; the work of the Mount Weather Meteorological Research Observatory in connection with solar physics. Authors: Gauss, Mascart, Stewart and Gee; numerous reports of observatories and recent scientific papers. Professor BIGELOW.

43. Meteorology. The theories of the general motions of the earth's atmosphere and of the generation of local cyclones and anticyclones, periodic variations in the pressure, temperature and precipitation of the atmosphere due to solar operations; short and long range predictions of the weather for the United States. A statement is made of the latest progress in the development of this branch of science, together with the allied problems of the transmission and absorption of solar energy in the earth's atmosphere and the ionization of the gases of the atmosphere, including important contributions of physical laboratories bearing on these subjects.

The results of the International Cloud Survey of 1896–1897; of the Weather Bureau nephoscope observatories in the West Indies, 1898–1902; a comparative study of the theories of dynamic meteorology; Bigelow's standard system of equations useful in meteorology; the gradients of pressure, temperature, and vapor tension as determined by cloud observations, balloon and kite ascensions; the barometry and thermometry of the United States; eclipse meteorology and allied problems; the new cosmical meteorology; these and related topics are included in this course. Professor BIGELOW.

44. A lecture course on the astro-physical instruments employed in modern research; the siderostat, the coelostat, the bolometer, the spectroheliograph, spectroscopes and telescopes

generally, explaining their mechanical parts, the methods of obtaining the instrumental errors, and the formulæ for reducing the observations. To be taken in connection with Courses 40 and 41. Mr. FOWLE.

BOTANY.

O. F. COOK, Ph.B. ..... *Professor*
JOHN CLEVELAND WELSH, M.S. ..... *Assistant Professor*

Preparatory work should include a year's course in the elements of the Morphology, Physiology, Ecology, and Classification of Plants. Students should be acquainted with the structure, habits, and natural history of one or more representatives of each of the primary groups of plants. They should be able to use the more important botanical terms with precision, should be familiar with the methods of study of one or more of the principal subdivisions of the science, and should know something of the nature and scope of the principal works of reference, especially those pertaining to American botany.

First Section. Primarily for Undergraduates.

1. General Botany. Plants viewed from the general-culture standpoint. Illustrations of principal types of structure and function. History and methods of botanical research. Natural history and uses of plants. Practical applications of botanical knowledge. Monday and Friday, at 5.40. Mr. WELSH.

Second Section. For Undergraduates and Graduates.

20. Systematic Botany. Purposes and methods of biological taxonomy as affording a necessary vocabulary and index of facts. Natural or phylogenetic arrangement. Systems and categories of classification. Rules of nomenclature. Works of reference. Herbarium methods. Collection and preservation of specimens in the various natural groups. Systematic study of some part of the local flora. Lectures, laboratory and field work. Monday, Wednesday, and Friday, at 4.50. Professor COOK and Mr. WELSH.

21. Structural Botany. Comparative studies of the morphology and histology of representatives of the principal types of plant structure. Lectures and laboratory work. Tuesday, Thursday, and Saturday, at 4.50. Mr. WELSH.

22. Physiological Botany. Comparative study of the methods by which nutrition, growth, reproduction, and other vegetative

functions are accomplished in the different natural groups. History, methods, and problems of physiological experiments with plants. Lectures and laboratory work. Tuesday, Thursday, and Saturday, at 4.50.

Third Section. Primarily for Graduates.

40. Geographical Botany. The distribution of plants in nature. Methods of dissemination and their efficiency. Geographical origins and histories of various orders and families. Lectures and research work; to follow Courses 20 and 21. Wednesday and Friday, at 4.50.

41. Developmental Botany. The facts of plant development as illustrations of the nature of the evolutionary process. Development and relationships of the principal types. Lectures and seminar work; to follow Courses 20, 21, and 22. Tuesday and Thursday, at 5.40. Professor COOK.

42. Economic Botany. The Uses of Plants. Aboriginal Botany. Origin and distribution of cultivated plants and agricultural industries. Applications of Botany to agricultural problems. Lectures and research work. Wednesday and Saturday, at 5.40. Professor COOK.

43. Thesis Work. Candidates for higher degrees who elect Botany as a major subject must present an outline of a proposed original investigation, showing methods to be followed and ends to be sought. In planning, executing, and presenting the results of the investigation, evidences of insight, constructive ingenuity, practical resourcefulness, and general scientific interest are expected, not merely applications to other plants of methods and theories already elaborated.

CHEMISTRY.

CHARLES E. MUNROE, Ph.D.....*Head Professor*
FRANK WIGGLESWORTH CLARKE, Sc.D..*Professor of Mineral Chemistry*
HARVEY W. WILEY, Ph.D., M.D..*Professor of Agricultural Chemistry*
THOMAS M. CHATARD, Ph.D.....*Lecturer on Chemical Engineering*
N. MONROE HOPKINS, Ph.D.....*Assistant Professor*
EDWIN A. HILL, Ph.D.....*Instructor*
THOMAS M. PRICE, Ph.D.....*Instructor*
OTIS D. SWETT, B.S.....*Instructor*
RAYMOND OUTWATER, B.S.....*Assistant in Assaying*
EDWIN SMITH, JR.....*Assistant*

First Section. Primarily for Undergraduates.

1. General Chemistry. A series of illustrated lectures, accompanied by recitations and exercises, on theoretical, inorganic, organic, and technical chemistry. Tuesday, Thursday, and Saturday, at 4.50. Professor MUNROE, Mr. SWETT.

2. Laboratory Practice. A laboratory course for the study of the principles of chemistry and the methods of conducting chemical experiments. Two three-hour periods. Tuesday and Thursday, at 1.30. Professor MUNROE, Asst. Professor HOPKINS, Dr. HILL, Mr. SMITH.

3. Preparation and Study of the Properties of Chemical Substances. A laboratory course. Two three-hour periods. Tuesday and Thursday, at 1.30. Professor MUNROE, Dr. PRICE, Mr. SMITH.

4. Assaying and Metallurgy of the Precious Metals, carried on by the methods used by the Government assayers, the laboratory being fitted up on the plan of that of the United States Mint. Twelve hours, for three months. Professor MUNROE, Mr. OUTWATER.

5. Lectures on the Principles of Analysis. One hour. Professor MUNROE.

6. Metallurgy of Iron and Steel. A course of lectures and readings. Tuesday, at 5.40. Professor MUNROE.

7. Qualitative Analysis. A brief course intended primarily for students in engineering. Two three-hour periods, for one term. Professor MUNROE, Dr. PRICE, Mr. SMITH.

Second Section. For Undergraduates and Graduates.

20. Qualitative Analysis. A laboratory course in the study of the properties and reactions of chemical substances, and of the means employed for their detection and identification. Three three-hour periods. Professor MUNROE, Dr. PRICE, Mr. SMITH.

21. Quantitative Analysis. A laboratory course in the quantitative estimation of the constituents of a specially selected and typical set of chemical substances, which are particularly adapted for teaching the student the aims and methods of quantitative chemical analysis and for imparting facility in manipulation. Four three-hour periods. Professor MUNROE, Dr. PRICE.

22. Technical Analysis and Industrial Processes. A lecture and laboratory course in which the elements of chemical engi-

neering are taught, and special attention is given to rapid commercial methods of analysis. Four three-hour periods. Professor MUNROE.

23. Advanced course in Organic Chemistry. Wednesday and Friday, at 4.50. Professor MUNROE, Mr. SWETT.

24. Advanced course in Organic Chemistry. A continuation of Course 23. Thursday and Saturday, at 5.40. Professor MUNROE, Mr. SWETT.

25. Chemistry of the Carbon Compounds. A laboratory course in the preparation and study of the properties of a characteristic series of organic compounds. Four three-hour periods. Professor MUNROE, Dr. PRICE, Mr. SWETT.

26. Physical Chemistry. A lecture course designed to be an introduction to physical chemistry, and to treat of the modern theories of chemistry from the physical standpoint. In this course special attention is given to the subject of electro-chemistry. Monday and Wednesday, at 5.40. Asst. Professor HOPKINS.

27. Stereo-chemistry. This course deals with the arrangements of atoms in space from a theoretical standpoint, while the student is taught how to form models by which to illustrate their arrangements. Two hours. Dr. HILL.

28. Biochemistry. A laboratory course in the chemical examination of some of the chief foodstuffs, the tissues and fluids of the body, and the products of certain organisms; also the isolation of the digestive enzymes and a study of their action *in vitro*. Three three-hour periods. Dr. PRICE.

Third Section. Primarily for Graduates.

40. Explosive Substances. Professor MUNROE.

41. Analytical Methods. Professor MUNROE.

42. The Phenomena of Deliquescence and Efflorescence. Professor MUNROE.

43. Development of the Theory of the Constitution of the Natural Silicates. Professor CLARKE.

44. The Redetermination of Atomic Weights. Professor CLARKE.

45. Special Researches in Agricultural Chemistry. Professor WILEY.

46. Special Researches in Electro-chemistry. Asst. Professor HOPKINS.

Students in Chemistry are invited to attend the meetings of the Chemical Society of Washington. These meetings are held on the second Thursday of each month from October to May, in the Assembly Hall of the Cosmos Club, at 8 p. m.

CIVIL ENGINEERING.

HENRY A. PRESSEY, B.S.....*Professor*
BERNARD HERMAN, B.S.....*Instructor*
FRANCIS R. WELLER, B.S.....*Instructor*

First Section. Primarily for Undergraduates.

1. Land and Topographical Surveying, with theory and use of instruments. Practical Exercises and Field-work, not less than sixty hours during the session. Johnson's Surveying. Wednesday and Friday, at 2.30. Mr. WELLER.

2. Railroad and Highway Engineering. Field-work as in Course 1. Allen's Railroad Curves and Earthwork. Searle's Field-book. Judson's Highway Construction. Monday, at 5.40; Tuesday, at 4.50. Professor PRESSEY, Professor THURSTON.

3. Sanitary Engineering (Water Supply and Sewerage). Folwell's Water Supply Engineering. Folwell's Sewerage. Monday and Friday, at 4.50. Design. Two hours. Professor PRESSEY.

4. Materials of Construction. Wednesday and Friday, at 5.40. Exercises. One hour. Mr. WELLER.

Second Section. For Undergraduates and Graduates.

20. Masonry Construction. Wednesday, at 4.50. Constructive Exercises. Baker's Masonry Construction. Two hours. Professor PRESSEY.

21. Hydraulic Engineering (Rivers, Water Power, and Irrigation). Frizell's Water Power. Wilson's Irrigation Engineering. Saturday, at 4.50. Constructive Exercises. One hour. Professor PRESSEY.

22. Framed Structures. Johnson's Framed Structures. Monday, Wednesday, and Friday, at 4.50. Design. Two hours. Mr. HERMAN.

Third Section. Primarily for Graduates.

40. Water Supply. Details of water works. Study of surface and underground waters as sources of supply, with special reference to methods of purification. Professor PRESSEY.

41. Sewerage. Details of sewerage systems, with special reference to methods of sewage disposal. Professor PRESSEY.

42. Hydrology. Flow of rivers, rainfall, and the effects of topography, forests, etc., upon the run-off of watersheds. Professor PRESSEY.

43. Irrigation. Professor PRESSEY.

44. Advanced course in the graphic statics of building construction.

45. The theory of suspension, continuous, cantilever, and braced arched bridges, with a more complete course in the design of plate girders, riveted and pin-connected bridges, with working drawings and estimates.

46. Advanced course in construction. The theory and designing of retaining walls, masonry arches, and dams.

47. Thesis, the subject of which is to be selected by the student and approved by the Professor of Civil Engineering.

CLASSICAL LANGUAGES.

MITCHELL CARROLL, M.A., Ph.D.....*Head Professor*
CHARLES SIDNEY SMITH, A.M..... ...*Assistant Professor*
PAUL NOBLE PECK, A.B.....*Instructor*

GREEK.

First Section. Primarily for Undergraduates.

1. Lysias (selected orations); Herodotus (selections); Greek prose composition. Monday, Wednesday, and Friday, at 2.30. Asst. Professor SMITH.

2. Euripides (Alcestis, Medea). Tuesday, at 3.30. Asst. Professor SMITH.

3. Thucydides (Book VII); Æschylus (Seven against Thebes); Sophocles (Antigone); Xenophon (Memorabilia). Monday, at 11.30; Wednesday, at 11; Friday, at 11.30. Mr. PECK.

4. Elementary Course. For students who have not taken Greek before matriculating. It aims to cover as much as possible of the entrance requirements in Greek. With private study during the summer the student may be able to take up Course 1 at the beginning of the following year with condition on Homer. Three hours. Mr. PECK.

Second Section. For Undergraduates and Graduates.

20. Plato (selections); Aristophanes (Clouds); Pausanias's Description of Attica. Tuesday and Thursday, at 9.30. Not given in 1905–06. Given in 1906–07.

21. Greek Literary Criticism: Aristotle (Art of Poetry); Aristophanes (Frogs); Greek Lyric Poetry (selections); Conferences on History of Greek Literature. Tuesday and Thursday, at 9.30. Professor CARROLL.

22. Greek Prose Composition (advanced course): Practical exercises in syntax and translation. Thursday, at 11.30. Professor CARROLL.

23. Homer: Rapid reading of the Odyssey. One hour. Friday, at 4.50. Asst. Professor SMITH.

LATIN.

First Section. Primarily for Undergraduates.

1. Livy (Books I, XXI); Cicero (De Senectute); Cicero and Pliny (selected letters); Latin Prose Composition. Monday, Wednesday, and Friday, at 1.30. Asst. Professor SMITH.

2. Horace (Odes and Epodes). Thursday, at 3.30. Professor CARROLL.

3. Tacitus (Agricola and Germania); Satires and Epistles of Horace; Ovid (selections); Martial (selections). Monday, Wednesday, and Friday, at 3.30. Professor CARROLL and Asst. Professor SMITH.

Second Section. For Undergraduates and Graduates.

20. Tacitus' Annals and Histories (selections); Vergil (Bucolics); Lucretius. Tuesday and Thursday, at 10.30. Not given in 1905–06. Given in 1906–07.

21. Roman Literary Criticism: Quintilian (Book X) and Horace (Ars Poetica); Catullus, Tibullus, and Propertius; Conferences on History of Roman Literature. Tuesday and Thursday, at 10.30. Professor CARROLL.

22. Latin Composition and Reading at Sight: Practice in Latin expression and style. Tuesday, at 1.30. Asst. Professor SMITH.

23. Plautus and Terence. Thursday, at 1.30. Asst. Professor SMITH.

NOTE.—Students in Greek and Latin are recommended to take as electives the following courses in Classical Archæology:

20. Topography and Monuments of Athens and Rome. Given in 1906–07.

21. Private and Public Life of the Greeks and Romans. Given in 1905–06. Monday and Thursday, at 4.50. Professor CARROLL.

22. Greek and Roman Architecture and Sculpture. Given in 1904–05.

Third Section. Primarily for Graduates.

THE SEMINARY OF CLASSICAL PHILOLOGY.

Professor CARROLL.....*Director*

The design of the Seminary of Classical Philology is to afford discipline in the methods of philological criticism and research with especial reference to the interpretation of classical authors. It is composed of all graduate students in Classical Languages, and is under the supervision of the Director, who is assisted by the other instructors of the department in certain features of the work. Each year two authors in related branches of Greek and Latin literature are made the center of study. Interpretations of the texts under consideration are prepared by the members, and papers are read by them containing the results of special study of philological or literary topics. Furthermore, wide and systematic reading in the authors selected is carried on under personal supervision, and special lectures are given on the departments of literature involved. The authors selected for criticism and interpretation are as follows:

1903–04. Greek, 40, Aristophanes; Latin, 40, Plautus.
1904–05. Greek, 41, Thucydides; Latin, 41, Tacitus.
1905–06. Greek, 42, Homer; Latin, 42, Vergil.
1906–07. Greek, 43, Attic Orators; Latin, 43, Cicero.

Regular meetings of the Seminary are held on Tuesday and Wednesday, at 4.50 p. m.

SCHOOL OF CLASSICAL STUDIES AT ATHENS.—The University is a contributor to the support of the American School of Classical Studies at Athens, and graduates of this University are entitled to all its advantages without expense for tuition.

THE CLASSICAL CLUB.

The Classical Club, which is composed of instructors and advanced students in Greek and Latin and Classical Archæology,

meets monthly for the more detailed discussion of special topics in ancient life, literature, and art than is ordinarily possible in the class-room. At each meeting a paper is read, reviews of recent classical publications are presented, and reports are made from various sites of archæological excavation. Teachers and patrons of the classics in Washington are admitted as associate members, and at open meetings the club avails itself, when possible, of the services of eminent scholars from other universities who may be temporarily in the city.

ECONOMICS AND SOCIOLOGY.

C. WILLIAM A. VEDITZ, Ph.D., LL.B.....*Professor of Economics*

* .....*Professor of Sociology*

ECONOMICS.

First Section. Primarily for Undergraduates.

1. Elementary Economics. Introduction to the study of political economy, beginning with a brief sketch of the rise and development of the science. The principal topics under discussion are: The nature and scope of economic science; economic laws; the nature and evolution of human wants; the concept of value; the determination of prices; the factors and methods of production; the movement of products; the principles underlying the present system of wealth-distribution. Although this is essentially a course in economic theory, the student is led to observe the phenomena of every-day industrial life; and with a view to acquainting him with its actual mechanism, visits are made by the class to factories and other industrial establishments in the vicinity of Washington. Text-book: Gide's "Principles of Political Economy," adapted by Veditz. The text-book is supplemented by lectures, assigned reading from the classical economists and typical modern authorities, class-room discussions, and reports on assigned topics by members of the class. Tuesday and Thursday, at 3.30. Professor VEDITZ.

2. Public Finance. An introductory study of the general principles of public expenditure, public revenue, public indebtedness, and financial administration, with particular regard for American conditions as they now exist. Two hours, first half-year, alternate years. Not given in 1905–06. Professor VEDITZ.

* To be elected.

Second Section. For Undergraduates and Graduates.

20. The Economics of Commerce. A somewhat more detailed examination of the problems and practices of exchange than could be given in Course 1, embracing the theory of markets, the functions and kinds of money, the principal monetary systems of today, bimetallism and monometallism, metallic money, paper money, credit, bank currency, the organization of banks, foreign exchanges, the theory of foreign trade, and the commercial policies of modern nations. Two hours, second half-year. Monday and Wednesday, at 4.50. Professor VEDITZ.

21. Socialism and Social Reform. This course begins with the history of communistic schemes, particularly so-called "Utopian" socialism as advocated by Plato, Thomas More, Saint Simon, Fourier, Proudhon, and Owen. This is followed by an examination of modern collectivism as presented by Rodbertus, Karl Marx, and Lassalle. The course concludes with an examination of the single-tax doctrine of Henry George, of schemes of profit-sharing between employer and employés, of coöperation. One hour, first half-year, alternate years. Given in 1905-06. Wednesday, at 3.30. Professor VEDITZ.

22. The Organization of Capital and Labor. A study of modern large-scale production, the concentration and localization of industries, and of the effect of monopoly on prices and wages. This course is also designed to furnish the student with a knowledge of the history, objects, and methods of labor unions and of the causes of, and the methods of preventing industrial conflicts. Two hours, second half-year, alternate years. Given in 1905-06. Tuesday and Thursday, at 4.50. Professor VEDITZ.

SOCIOLOGY.

Second Section. For Undergraduates and Graduates.

20. The Science of Society. A general course in theoretical sociology. The scope of sociology; its relation to the individual social sciences; the organic concept of society; the contract theory and its variants; the fundamental factors of social evolution; the biological, economic, and psychological schools of sociologists; race, environment, and heredity; forms of society; social institutions in their origin and development; social progress. Two hours, first half-year. Monday and Wednesday, at 4.50. Professor ———.

ELECTRICAL ENGINEERING.

FRANK A. WOLFF, Ph.D.....*Professor*
PHILANDER BETTS, E.E.....*Instructor*
CLARENCE E. REID.....*Instructor*

First Section. Primarily for Undergraduates.

1. Elementary Mathematical Theory of Electricity and Magnetism. Text-book: S. P. Thompson's Elementary Lessons in Electricity and Magnetism. Monday and Wednesday, at 5.40. First half-year. Professor WOLFF.

2. Dynamo-electrical Machinery. Text-book: Hawkins and Wallis's The Dynamo. Monday and Wednesday, at 5.40; Thursday and Saturday, at 4.50. Second half-year. Mr. BETTS.

3. Electrical Measurements. A laboratory course for students in the Electrical Engineering Course. Text-book: Carhart and Patterson's Electrical Measurements. Three two-hour periods. Mr. REID.

Second Section. For Undergraduates and Graduates.

20. Advanced Mathematical Theory of Electricity and Magnetism. Text-book: Gerard's Electricity and Magnetism (translated by Duncan). Monday, Wednesday, and Friday, at 4.50. First half-year. Professor WOLFF.

21. Dynamo-electric Machinery. Advanced Course. Text-books: S. P. Thompson's Dynamo-electric Machinery and Polyphase Currents; Jackson's Alternating Currents. Monday, Wednesday, and Friday, at 4.50. Second half-year. Professor WOLFF and Mr. BETTS.

22. Technical Applications of Electricity. A course covering the most important applications of electricity: Telephony, Telegraphy, Lighting, Power Transmission, Electro-metallurgy, Electro-chemistry, etc. Wednesday and Saturday, at 5.40. Special lecturers.

23. Advanced Laboratory Work for students in the Electrical Engineering Course. Three two-hour periods. Mr. BETTS.

24. Inspection of Electric Light and Power Plants, etc. In the vicinity of Washington and Baltimore are a number of modern electric-lighting and street-railway plants, telephone

exchanges, telegraph operating-rooms, etc., which afford students of electrical engineering an opportunity to familiarize themselves with nearly all types of electrical apparatus in use. The visits are followed by a class discussion. Occasional meetings are held at which papers on special subjects are read by advanced students. Mr. BETTS.

Juniors and Seniors in Electrical Engineering are required to attend the monthly meetings of the Washington branch of the American Institute of Electrical Engineers, held at the University.

Third Section. Primarily for Graduates.

40. Technical Applications of Electricity. A course of special lectures on the most recent and most important applications of electricity to industrial and scientific use. Two hours.

41. Design of Direct and Alternating Current Machinery. Two hours.

42. Advanced Course in the Mathematical Theory of Alternating Currents. Three hours, first term. Professor WOLFF.

43. Advanced Course in Polyphase Currents. Three hours, second term. Professor WOLFF.

44. Advanced Laboratory Work, Alternating (including Polyphase) Current Apparatus. Three two-hour periods.

21. American Social Problems. A course in practical sociology designed to acquaint the student with the great present-day problems of social life in this country—the treatment of defectives, dependents, and delinquents. The principal problems under discussion are immigration, pauperism, unemployment, charity organization and poor relief, slums, intemperance, and criminality. This course is not technical, but intended as a preparation for intelligent citizenship. Students are encouraged to undertake sociological field-work—*i. e.*, the study of charitable and correctional institutions and practices in the vicinity of Washington. Class visits are made to institutions of this character, and from time to time specialists in social reform work are invited to lecture to the class. Two hours, second half-year. Tuesday and Thursday, at 2.30. Professor VEDITZ.

Third Section. Primarily for Graduates.

40. Criminology and Penology. An advanced course in social philosophy for the consideration of the following subjects: The concept of crime; the necessity of legal compulsion; evolution of the idea of crime; the lex talionis; the nature and purposes of punishment; social defense; the individualization of punishment; capital punishment; duels and ordeals; reformation; the indeterminate sentence; the French *loi Bérenger;* juvenile courts; prison systems; etc. One hour, first half-year. Tuesday, at 4.50. Professor VEDITZ.

41. The Psychic Factors of Civilization, or the Teleological Interpretation of History. A course in theoretical and genetic sociology considered as a social psychology. Two hours, second half-year. Professor ———.

42. Seminary in Economics and Sociology. A limited number of students competent to undertake the work are organized into a Seminary for the scientific investigation of important problems in Economics and Sociology. Two hours. Professors VEDITZ and ———.

ENGLISH.

WILLIAM ALLEN WILBUR, A.M. ..... *Head Professor*
DE WITT C. CROISSANT, A.B. ..... *Instructor*
JAMES FREDERICK PEAKE, A.M. ..... *Assistant*

First Section. Primarily for Undergraduates.

1. Rhetoric. This course presupposes a knowledge of the elements of rhetoric. The objects of the course are: an exposition of the principles of rhetoric; a verification of these principles by the analysis of selections from the best writers, with definite practical deductions to guide in criticism and composition; the application of these principles in theme writing, with frequent consultations in regard to the theme work. Textbook: Genung's Working Principles of Rhetoric. Tuesday and Thursday, at 9.30. Professor WILBUR, Mr. CROISSANT, and Mr. PEAKE.

2. Rhetoric. Parallel with Course 1. Monday and Friday, at 4.50. Professor WILBUR, Mr. CROISSANT, and Mr. PEAKE.

3. Prose. The development of prose from Sir John Mandeville to Robert Louis Stevenson. About twenty representative prose works are studied in chronological order. The aim of the course is to study critically the development of prose in regard to its form. In addition to the study of the works themselves, lectures are given on the history of English prose and the development of rhetorical theory. The course is open to students who have passed in 1 or 2. Monday, at 10.30; Wednesday, at 10; Friday, at 10.30. Mr. CROISSANT.

4. English Literature. A course of lectures tracing the historical development of the literature with the design of giving a general view of the literature of England and emphasizing its consistency in the persistence of a certain distinctive quality. Students taking this course read a few selected books. Wednesday, at 4.50. Professor WILBUR.

5. American Literature. Lectures and class studies in biography and literature. Students taking this course are required to read widely in the literature. Wednesday, at 5.40. Professor WILBUR.

Second Section. For Undergraduates and Graduates.

20. Composition. An advanced course. Theme writing, paragraph making, and studies in criticism. Wendell's English

Composition is used as a handbook. The course is open to students who have passed in Course 1 or 2. Tuesday, at 1.30. Professor WILBUR.

21. Old English. A beginners' course; the essentials of the grammar and readings from Old English texts. Bright's Reader. Tuesday and Thursday, at 2.30. Mr. CROISSANT.

22. Shakespeare. Comedies and English Historical Plays. Given in 1904–05.

23. Shakespeare. Tragedies and Romances. Given in 1905–06.

Courses 22 and 23 are given in alternate years. The Temple edition of Shakespeare is recommended. Monday, Wednesday, and Friday, at 1.30. Professor WILBUR.

27. The English Novel. Development of the Novel, with critical studies of selected works, including some contemporary fiction. Monday and Friday, at 5.40. Professor WILBUR.

30. Middle English. In the first term particular attention is given the grammar; in the second term more attention is given the literature, with wider reading and special reports. Liddell, Chaucer; Skeat, Piers the Plowman. Tuesday and Thursday, at 1.30. Mr. CROISSANT.

34. History of English Literature to 1700. Given in 1905–06.

35. History of English Literature since 1700. Not given in 1905–06.

Courses 34 and 35 are given in alternate years, and together form a complete history of English Literature. Though no text-book on the history of the literature is used, the course is based primarily on the series of "Handbooks of English Literature" edited by Professor Hales. Lectures are given on the development of the literature, and the class is required to read as widely in the literature itself as the time allows. The required reading supplements the lectures and is discussed by the class. Tuesday and Thursday, at 4.50. Mr. CROISSANT.

Third Section. Primarily for Graduates.

40. History of the English Language. This course aims not merely to present the chronological development of the language since the beginning of the Old English period, but principally to serve as an introduction to the comparative grammar of the Germanic group of languages as they are related to English. References are made to Brugmann, Paul,

Dieter, and others. A reading knowledge of German is prerequisite. The course is open to those who have passed in Old and Middle English. Mr. CROISSANT.

44. Seminary in English Literature. Subject in 1905–06: The American Short Story. Two hours. Professor WILBUR.

Special topics of graduate study may be pursued under the direction of the department. The following courses of research are suggested:

51. The Phenomena of Personality in Composition and in Literature.

52. The Arthurian Legends: Their expression, development, and significance in English literature.

53. English Romanticism, with particular reference to the beginnings of the romantic movement in the eighteenth century.

55. Religious Philosophy in Nineteenth Century Poetry.

GEOLOGY AND MINERALOGY.

GEORGE P. MERRILL, Ph.D.....*Professor*
R. S. BASSLER, M.S.....*Instructor in Paleontology and Stratigraphical Geology*

First Section. Primarily for Undergraduates.

1. Mineralogy. Crystallographic, descriptive, and determinative mineralogy. This course is designed with especial reference to minerals as rock constituents or segregated as ore deposits. It includes, therefore, a discussion of not merely the crystallographic and theoretical, but the practical side of the subjects as well. Whenever possible, it should be considered as introductory to the courses in either systematic or economic geology. Tuesday and Thursday, at 5.40.

2. Geology. Systematic geology; dynamical, structural, and stratigraphical. The course is designed to form a part of a general-culture course, or a preliminary course for those intending to make a specialty of geology. It includes lectures, recitations, laboratory and field work so far as hours will permit. Paleontology is treated as a branch of geology, having especial reference to stratigraphy and correlation. Text-books: Scott's Introduction to Geology; Merrill's Rocks, Rock Weathering and Soils. Monday and Friday, at 5.40.

Second Section. For Undergraduates and Graduates.

20. Economic Geology. The course consists largely of lectures upon the subjects comprised under: (1) Mineral veins and metalliferous deposits, their mode of occurrence, origin, and classification; (2) the ores of iron, copper, lead, zinc, tin, silver, gold, mercury, antimony, etc.; and (3) the non-metallic minerals, as the coals and hydrocarbon compounds; salts and materials used in chemical manufactures; abrasive, refractory, and fictile materials, pigments, gems, ornamental stones, building stones, limes, cements, and mineral waters. Text-books: Kemp's Ore Deposits of the United States; Merrill's Stones for Building and Decoration, and the Non-metallic Minerals. Monday and Friday, at 4.50.

Third Section. Primarily for Graduates.

Advanced study in Geology, both systematic and applied, is arranged to cover two years.

40. Advanced Geology. The student in this first-year course may devote his time largely, if necessary, to perfecting himself in methods; to general work in the laboratory and in the field; to the examination of geological materials, and to familiarizing himself with the literature of the subject. The utility of the various text-books is recognized, but a very large portion of the desired knowledge on any subject must be gained from special memoirs and from the current literature as it appears in numerous periodicals. The various sources of information, the most essential lines of work, as well as the most promising fields of investigation, are from time to time indicated by the instructor.

41. Advanced Geology: A continuation of Course 40. The student is expected to devote himself to some special investigation which shall serve as the subject of his thesis. The course is modified to suit individual cases, in order that the student may be restricted as little as possible in the exercise of personal taste, originality, and capacity for work.

GERMAN.

HERMANN SCHOENFELD, Ph.D., LL.D. ..... *Head Professor*
CARL HAU, A.M. ..... *Instructor*

First Section. Primarily for Undergraduates.

Instruction in German has, as its primary object, a thorough knowledge of the grammar and familiarity with the general

literature and history, with such practice in conversation as shall serve as a stimulus in the furtherance of this object. The principles of grammar are illustrated from the class readings and composition.

1. A preliminary course in grammar, narrative prose, the elements of historical reading, and select poems of the principal modern poets. Special stress is laid on exercises in composition. One classic (Schiller) is studied. The work done is equivalent to a two years' course in high schools or academies of good standing. Open to students who have not presented German for admission. Monday, at 11.30; Wednesday, at 11; Friday, at 11.30. Professor SCHOENFELD and Mr. HAU.

2. Identical with Course 1, with the addition of material tending to train students in the sciences. Tuesday, Thursday, and Saturday, at 4.50. Professor SCHOENFELD and Mr. HAU.

3. The deeper aspects of grammar; accurate training in phonetics and translation into German; conversation; readings from the best German prosaists and poets; selected texts from Schiller, Lessing, Goethe, Freytag, and the foremost recent authors. Beginnings of German literature and history. Special preparation for scientific professional work. Open to students who have passed Course 1 or 2, or have fulfilled the entrance requirement in Elementary German. Monday, Wednesday, and Friday, at 3.30. Professor SCHOENFELD and Mr. HAU.

4. Identical with Course 3. Tuesday, Thursday, and Saturday, at 5.40. Professor SCHOENFELD and Mr. HAU.

5. Advanced course in German syntax; principal difficulties of the language; idioms; synonyms; extensive translation of the best English prosaists into German; essays; selected advanced prose; classical reading and literature; German history. Special training for advanced students in the historical and economic departments. Open to students who have passed Course 3 or have fulfilled the entrance requirement in Advanced German. Monday, Wednesday, and Friday, at 1.30. Professor SCHOENFELD.

Second Section. For Undergraduates and Graduates.

20. German Literature in the first half of the nineteenth century; its social and political aspects; special study of Kleist, Uhland, Heine; the Romantic School; classicism till Goethe's death; essays, lectures, and collateral reading. Tuesday and Thursday, at 11.30. Professor SCHOENFELD.

21. German Literature of the Classic Period at its zenith; Goethe's and Winckelmann's influence on German art. Tuesday and Thursday, at 3.30, and Friday, at 2.30. Professor SCHOENFELD.

The intervening periods of Modern German Literature will be studied during the subsequent academic year.

Third Section. Primarily for Graduates.

40. German Literature in the sixteenth century. Braune's Neudrucke Deutscher Literaturwerke. Humanism and Reformation, with special reference to Italian and French influences and their historical basis. Original readings from the Humanists and Luther's works. The reformatory projects of Cardinal Nicolaus Cusanus and of Erasmus, Hutten, and Reuchlin. One hour. Professor SCHOENFELD.

41. German Literature in the twelfth and thirteenth centuries, with special regard to the Nibelungen lay, the Gudrun saga, Wolfram von Eschenbach. The lyrics of Walther von der Vogelweide. The grammatical aspects of the classics of the first period of bloom. Two hours. Professor SCHOENFELD.

The other phases of older German literature and philology will be studied in subsequent years, so that the general range of the history of German Literature may be covered every three years.

45. The emerging of the Germanic, Romance, and Slavic races in European History. The Migration of Peoples. The Evolution of European States to the rise of the Hapsburg House. Cultural elements influencing the three predominating races of Europe. (Selections from the historical sources are read and interpreted.) Professor SCHOENFELD.

46. The Romanticists, the Patriotic Poets of the Liberation Period, and the National Revival after 1806. The reconstruction of Prussia, literary influences upon the Revolutions of 1830 and 1848, and upon the building up of the Modern German Empire. Professor SCHOENFELD.

GRAPHICS.

ERNEST LAWTON THURSTON, C.E. ..... *Professor*
EDWARD ADAMS MUIR, B.S. ..... *Assistant Professor*
ISAAC ALLISON, B.S., E.E. ..... *Instructor*

First Section. Primarily for Undergraduates.

1. Mechanical Drawing. A course designed to give a knowledge of the fundamental principles of mechanical drawing and

to prepare for higher technical drawing. A study of geometrical and graphical constructions, including: higher curves; elementary orthographic and isometric projections, sections, and intersections; dimensioning, lettering, and conventional symbols; first principles of working drawings and tracings. Monday and Friday, at 5.40, with supplementary exercises. Professor THURSTON and Mr. ALLISON.

2. Machine Drawing. A general course in reading drawings and in drawing-room practice, including: A study of the names and arrangement of views and sections; conventional methods and the nomenclature of machine parts; practice in describing the machine and its operation from the drawing. One hour (special students, two hours). Asst. Professor MUIR.

3. Machine Drawing. A course designed especially for mechanical and electrical engineering students. Projections of intersections and development of surfaces; conventional forms, rules, etc.; the construction and reading of working drawings. Two two-hour periods for one term. Friday and Saturday at 5.40.

For advanced students additional work is offered during the second term, including the construction of working drawings and sketches from models; detailing from general drawings; tracing and blue printing; designing by means of graphic methods and empirical formulæ. Asst. Professor MUIR.

8. Descriptive Geometry. A study of the representation of lines, surfaces, and solids, and of their relations; tangencies, intersections, and developments; warped surfaces; shades and shadows; original construction problems. Tuesday and Thursday, at 5.40; supplementary exercises, two hours. Professor THURSTON.

9. Lettering as applied to Mechanical, Topographic, and Architectural Drawing. Two hours.

10. Topographic Drawing. A general course, including: Hypsographic expressions; topographic, cadastral, and public culture symbols; scales and plotting; projections, reductions, and enlargements; compilation, plain and in color. Two hours, with supplementary exercises. Professor THURSTON.

Second Section. For Undergraduates and Graduates.

20. Graphic Statics. Principles and methods, including the construction and use of load, stress, and moment diagrams; dead, live, snow, and wind loads; the graphic analysis of simple beams, girders, roof trusses, and bridge trusses, masonry arches,

etc.; simple designing. Thursday and Saturday, at 4.50; supplementary exercises, two hours. Professor THURSTON.

21. Mechanics of machinery; the graphical statics of mechanism. Wednesday and Saturday, at 5.40. Professor THURSTON.

Third Section. Primarily for Graduates.

40. Geometry of Position. A study of the subject as developed by projective methods based on the works of von Staudt, Steiner, etc. Professor THURSTON.

41. Graphic Statics. Studied as a part of Applied Mechanics, based on the works of Culmann, Ritter, Koechlin, Chambers, etc. Professor THURSTON.

42. Graphic Statics. Studied as a part of Analytic Mechanics, based on geometry of position. Professor THURSTON.

43. Systems of Projection. A comparative study of the theories and principles of known systems, with their applications to technical drawing and map projection. Professor THURSTON.

44. The History and Development of Technical Drawing from earliest times. Research work. Professor THURSTON.

HISTORY AND POLITICAL SCIENCE.

CHARLES CLINTON SWISHER, Ph. D.....*Head Professor of History and Professor of Political Science*
WILLIAM HAMILTON, Ph.D.....*Lecturer in History*
L. RUSSELL ALDEN, A.M.....*Instructor in Mediæval and Modern European History*

HISTORY.

First Section. Primarily for Undergraduates.

1. Mediæval History. After a general survey of those conditions of ancient civilization which have been potent in their influence upon later times, this course treats in detail the migration and settlement of the Germanic tribes in the territory of the Empire and the gradual blending of Roman and Teutonic institutions in the modern State. Text-book, lectures, and collateral reading. Tuesday, Thursday, and Friday, at 10.30. Mr. ALDEN.

2. Modern European History. A history of the European States under the new conditions brought into action by the Protestant Revolution, the invention of printing, and the dis-

covery of America to the period of the French Revolution. Text-book, lectures, and reports. Tuesday and Thursday, at 11.30. Mr. ALDEN.

3. English History. A general survey of the whole field of English History, with special reference to political and social development and later industrial and commercial expansion. Lectures, text-books, and reports. Tuesday and Thursday, at 3.30. Professor SWISHER and Mr. ALDEN.

Second Section. For Undergraduates and Graduates.

20. Modern European History. A study of the French Revolution, the political significance of the career of Napoleon, and the subsequent triumph of the principles of the revolution in France, Italy, Spain, and the German States, with incidental reference to the growth of Russia and the situation in Eastern Europe. The work is intended to give in a general way the political and constitutional history of Continental Europe in the nineteenth century. Lectures, examinations, with special subjects assigned for investigation and report. Tuesday and Thursday, at 4.50. Professor SWISHER and Dr. HAMILTON.

21. Contemporaneous European History. A discussion of the political problems at present confronting the more important European States and the significance of these problems to international politics. Lectures, examinations, and collateral readings. Open to students who have completed Course 20. Wednesday and Friday, at 2.30. Professor SWISHER and Dr. HAMILTON.

22. European Diplomatic History from 1815 to 1878. A history of the foreign relations of the European States from the Congress of Vienna to the Congress of Berlin. Open to students who have completed Course 20. One hour. Professor SWISHER.

23. The Rise of the British Empire. The colonial expansion of Great Britain in the seventeenth and eighteenth centuries. British colonial policy in the nineteenth century. England in Egypt and the East. The problem of imperial federation. Open to students who have completed Course 3. Lectures and examinations. Wednesday and Friday, at 3.30. Professor SWISHER.

24. American Political History. A study of the economic and social conditions of the English colonists in America leading to Revolution. The acquisition of new territory and ma-

terial development under the Federal Constitution of 1789. Industrial differentiation and Civil War, with a study of resulting conditions. Lectures, text-book, and examination. Wednesday and Friday, at 4.50. Professor SWISHER.

25. English Constitutional History Parliamentary privileges developed under the Norman and Plantagenets, arrested under the Tudors, and reasserted under the later Stuarts, with a study of its fuller realization in the reforms of 1832. Lectures and collateral readings. Open to students who have completed Course 3, first half-year. Tuesday and Thursday, at 2.30. Professor SWISHER.

26. American Constitutional History. The development of constitutional institutions during the Colonial period as formulated in the early State Constitutions and the Articles of Confederation. The more fully developed Constitution of 1789, with its interpretation under the pressure of party issues through the period of division and reunion. Lectures and collateral readings. Open to students who have completed Course 24. Two hours, second half-year. Tuesday and Thursday, at 2.30. Professor SWISHER.

27. American Industrial History. An economic interpretation of some of the more distinctive phases of American politics. Open to students who have completed Course 24. Two hours. Tuesday and Thursday, at 3.30. Professor SWISHER.

POLITICAL SCIENCE.

Second Section. For Undergraduates and Graduates.

20. Party Government in the United States. A study of the issues upon which parties are founded, with an examination into party methods as illustrated in political platforms, primaries, nominating conventions, and campaign literature. Open to students who have taken Course 24. Two hours. Wednesday and Friday, at 1.30. Professor SWISHER.

21. Comparative Politics. A comparative study of political methods in the United States and England, France, Germany, and Switzerland. One hour. Monday, at 3.30. Professor SWISHER.

22. The Government of France. An examination of the "organic laws" of the French Republic and their practical operation, with particular emphasis on the points of interest to the student of Comparative Jurisprudence. Designed primarily for students of Diplomacy and Politics, but open to students

in History and Political Science. One hour, first half-year. Professor VEDITZ.

Third Section. Primarily for Graduates.

40. Historical Construction. A discussion of the sciences auxiliary to historical study. The historical materials contained in the great collections of America and Europe and the methods to be employed in the investigation, presentation, and general treatment of historical evidence. The course is designed primarily as an object lesson in the principles of historical criticism for the assistance of graduate students in the preparation of theses. Professor SWISHER.

41. American History from 1820 to 1856. The slavery question in American politics. A study of parties and party issues from the Missouri Compromise to the formation of the Republican party. Professor SWISHER.

42. American History from 1860 to 1883. A constitutional study of the periods of Civil War and Reconstruction. Professor SWISHER.

43. English History from 1603 to 1689. A study of the constitutional issues between Crown and Parliament under the Stuarts through the Revolution of 1689. Professor SWISHER.

44. English History from 1784 to 1885. A history of the reform movement in England from the close of the American Revolution through the second ministry of Gladstone. Professor SWISHER.

45. The History of France from 1789 to 1848. The history of constitutional development in France from the meeting of the States General, in 1789, to the Second Empire. Professor SWISHER and Dr. HAMILTON.

Work in Seminaries. The results of individual research upon assigned topics and reviews of recent political and historical publications by graduate students will be discussed at the weekly seminaries of history and political science.

MATHEMATICS.

JAMES HOWARD GORE, Ph.D.....*Head Professor*
PAUL NOBLE PECK, A.B.....*Instructor*

First Section. Primarily for Undergraduates.

2. Plane and Solid Geometry; Gore's Plane and Solid Geometry. Tuesday and Thursday, at 5.40. Mr. PECK.

3. Solid Geometry ; Gore's Plane and Solid Geometry. Monday, at 9.30 ; Wednesday, at 9 ; Friday, at 9.30, October and November. Mr. PECK.

4. Algebra ; Bowser's College Algebra. Wednesday and Friday, at 5.40. Professor GORE.

5. Algebra ; Bowser's College Algebra. Monday, at 9.30 ; Wednesday, at 9 ; Friday, at 9.30, December to March. Mr. PECK.

6. Solid Geometry ; Gore's Plane and Solid Geometry. Tuesday, Thursday, and Saturday, at 4.50, October and November. Mr. PECK.

7. Plane Trigonometry ; Crockett's Plane and Spherical Trigonometry. Monday, at 9.30 ; Wednesday, at 9 ; Friday, at 9.30, April and May. Mr. PECK.

8. Algebra ; Bowser's College Algebra. Tuesday, Thursday, and Saturday, at 4.50, December to March. Mr. PECK.

9. Spherical Trigonometry ; Crockett's Plane and Spherical Trigonometry. Monday, at 11.30 ; Wednesday, at 11 ; Friday, at 11.30, October and November. Professor GORE.

10. Plane Trigonometry ; Crockett's Plane and Spherical Trigonometry. Tuesday, Thursday, and Saturday, at 4.50, April and May. Mr. PECK.

11. Analytic Geometry ; Nichol's Analytic Geometry. Monday, at 11.30 ; Wednesday, at 11 ; Friday, at 11.30, December to May. Professor GORE.

12. Spherical Trigonometry ; Crockett's Plane and Spherical Trigonometry. Monday, Wednesday, and Friday, at 5.40, October and November. Mr. PECK.

14. Analytic Geometry ; Plane and Solid ; Nichol's Analytic Geometry. Monday, Wednesday, and Friday, at 5.40, December to May. Mr. PECK.

NOTE.—Courses 2 and 4 are intended for students who desire to review some parts of elementary algebra and plane geometry, in order to obtain that thorough and ready knowledge of these fundamental mathematical studies that is necessary for their proper use in other subjects. These classes are not intended for beginners, and only students who have studied elementary algebra and plane geometry are admitted.

Courses 3, 5, and 7 are designed to occupy one year ; likewise Courses 2 and 4.

Engineering students whose time will permit are advised to

complete during their first year Algebra, Geometry, Trigonometry, and Analytic Geometry.

Second Section. For Undergraduates and Graduates.

20. Differential and Integral Calculus; Taylor. Monday, Wednesday, and Friday, at 4.50, for six months. Professor GORE.

21. Differential and Integral Calculus; Taylor. Monday, at 9.30, Wednesday, at 9, and Friday, at 9.30, for six months. Professor GORE.

22. Differential Equations; Osborne. Monday, Wednesday, and Friday, at 4.50, April and May. Professor GORE.

23. Differential Equations. Johnson's Differential Equations. Two hours. Professor GORE.

In all of the above courses the text is supplemented by lectures and the principles emphasized by proposing for solution a large number of problems taken from the best European and American authorities.

While the disciplinary value of the study of mathematics is never lost sight of, the importance of its practical application is insisted upon.

Third Section. Primarily for Graduates.

41. Theory of the Complex Variable. Lectures with reference to Durege and Forsyth. Three hours for four months. Professor GORE.

43. Functions. Lectures with reference to Harkness and Morley, Briot, and Legendre. Three hours for four months. Professor GORE.

MECHANICAL ENGINEERING.

FRANK VAN VLECK, M.E., Ph.D.....*Professor*
EDWARD ADAMS MUIR, B.S.....*Assistant Professor of Graphics*
PHILANDER BETTS, E.E.....*Instructor in Electrical Engineering*
ISAAC ALLISON, B.S., E.E.....*Instructor*

First Section. Primarily for Undergraduates.

1. Machine Design. Proportioning of the following machine parts: Fastenings, toothed and belt gearing, rotating and sliding pieces, bearings, and connecting rods. Two two-hour periods. Thursday and Saturday, at 4.50. Professor MUIR.

2. Kinematics. Nature of mechanisms. Diagrams of the changes of position and speed in mechanisms. Tuesday, at 4.50; Friday, at 5.40. Mr. ALLISON.

3. Boilers. Location, construction, strength, and wear and tear of boilers. Monday and Wednesday, at 4.50, second term. Mr. BETTS.

Second Section. For Undergraduates and Graduates.

20. Thermodynamics. The steam-engine and other heat engines. Monday and Friday, at 5.40. Professor VAN VLECK.

21. Mechanical Technology. Shop visits. Examination of processes and appliances pertaining to pattern-making, molding, casting, forging, and finishing. Two two-hour periods. Mr. BETTS.

22. The Mechanical Engineering of Power Plants. Tuesday and Thursday, at 5.40. Mr. BETTS.

23. Engine Design. Theory of and calculations for a high-speed steam-engine. Four hours. Professor VAN VLECK.

24. Mechanics of the Machinery of Transmission. Monday, at 4.50, and Wednesday, at 5.40. Professor VAN VLECK.

25. Measurement of Power. Practical work in indicating steam-engines, determining the evaporative efficiency of boilers, etc. Three periods. Mr. BETTS.

Third Section. Primarily for Graduates.

40. Advanced Steam-engine Design. Study of proportions of multi-expansion engines, with analysis of valves and link movements by Zeuner and other diagrams. Compilation of dimensions and attained results by reference to examples of best and recent practice.

41. Explosion Motors. The chemical and physical theory of, with examination into the essentials of the mechanical design, to be followed with a developed series of tests on the large Westinghouse gas-engine, with which the mechanical-electrical laboratory of the University is provided. Professor VAN VLECK.

42. Hydraulic Machinery. Pumps and pumping engines and the "duty" of pumping machinery and plants. Hydraulic-power applications and hydraulic-power transmission.

43. Hydraulic Prime Movers. Use of water under high heads or in large quantities. Study of modern turbines and

high-speed wheels. With a library course, examining into the technical features of large hydraulic-power plants in this country or abroad, for this purpose using the files of the Congressional Library.

This course constitutes one-third of a course devoted to the subject of the engineering of high-power electric transmission plants, and is open to advanced students in either of the Departments of Civil, Electrical, or Mechanical Engineering. The course is distributed in the three departments of Engineering, as follows:

I. Civil Engineering Problems for plants with large hydraulic heads.
Professor PRESSEY, Professor of Civil Engineering.

II. Hydraulic Prime Movers for water under high heads.
Professor VAN VLECK, Professor of Mechanical Engineering.

III. High Potential Electric Transmission.
Professor WOLFF, Professor of Electrical Engineering.

44. Compressed-air Machinery. Design of, with consideration of the mechanical and pneumatic principles. Transmission of air, with application in the arts.

45. Marine Machinery. Screw propulsion, design and proportioning of screws for assumed conditions of speed, displacement and horse-power, with examination into the requirements of engine design for merchant and naval vessels. Special needs of machinery and boilers on board ship, as the use of condensers, evaporators, distillers, etc., with study of the reasons for the design of the various types.

46. Ordnance Engineering. 1. Exterior ballistics. 2. Interior ballistics, chemistry, and physics of explosives. 3. Metallurgy of gun steels and practice of heavy forgings. 4. Built-up guns, shrinkage, wire-winding, etc. 5. Gun design, mounts, turrets, rapid-fire and automatic guns. 6. Armor and projectiles. 7. Torpedoes and torpedo tubes.

47. Mechanical Refrigeration. Thermic principles involved in production of cold by expansion. Advantages possessed by use of ammonia, air, and other gases or fluids. Types of machines for these purposes in use.

48. A thesis on a subject to be selected by the student and which must involve original work, indicating that the writer has some power for original design or investigation. The approval of the subject must be given by the Professor of Mechanical Engineering.

METEOROLOGY.

CLEVELAND ABBE, A.M., LL.D ..... *Professor*

First Section. Primarily for Undergraduates.

1. Observational Meteorology. The student keeps a personal diary of the meteorological conditions. The lectures relate to instruments, methods of observing and computing, and graphic presentation of results. Tuesday and Thursday, at 4.50.

Second Section. For Undergraduates and Graduates.

20. General Climatology. The lectures relate to the elements of climate; the physical processes explaining climatic phenomena; the theory of probabilities as applied to climatology; the determination of the numerical factors that represent climatological peculiarities. Tuesday and Thursday, at 5.40.

21. Applied Climatology and Meteorology. The lectures present the detailed relations of climate to geology, botany, anthropology, hygiene, navigation, agriculture, and manufacture.

Third Section. Primarily for Graduates.

40. Experimental and Laboratory Work in Meteorology. The lectures treat of the theories of instruments and the laws of atmospheric phenomena, so far as they are susceptible of elucidation by laboratory experiment.

41. Practical Meteorology. The lectures treat of cartography; daily weather charts; methods of predicting the weather for a few days; long-range predictions for seasons; methods of verification; the climates of past geological ages; the methods of reduction and publication.

42. Physical and Theoretical Meteorology. The lectures sketch the present state of our knowledge of atmospheric phenomena as a problem in thermodynamics and hydrodynamics. An extensive course of reading and private study is marked out for the pupil, and his thesis for the degree of Ph.D. must be in the field of physical meteorology.

Courses 21, 40, 41, and 42 embrace two lectures weekly and laboratory work.

PHILOSOPHY.

JAMES MACBRIDE STERRETT, A.M., D.D. ..... *Head Professor*
GEORGE LANSING RAYMOND, L.H.D. ..... *Professor of Æsthetics*
* ..... *Professor*
WILLIAM T. HARRIS, LL.D. ..... *Lecturer*
GEORGE S. PAINTER, A.M., Ph.D. ..... *Instructor*

First Section. Primarily for Undergraduates.

1*a*. Psychology. The aim is to make this work a preparation for an intelligent study of Ethics and Philosophy. A careful study is made of the phenomena of intellect, feeling, and will as organic processes of the man developing into conscious universal relations. A text-book is used, with lectures, themes, and constant reference to the leading works on Psychology. Monday, at 9.30 ; Wednesday, at 9 ; Friday, at 9.30, for three months.

1*b*. Logic. Creighton's or Jevons' Logic is used as a text-book. Monday, at 9.30; Wednesday, at 9 ; Friday, at 9.30, for two months.

1*c*. Outlines of the History of Greek Philosophy. Text-book and lectures. Monday, at 9.30 ; Wednesday, at 9 ; Friday, at 9.30, for three months.

2. Course parallel to Course 1. Wednesday and Friday, at 4.50.

This elementary course, or an equivalent preparation, required of students for admission to higher courses in Philosophy. Professor STERRETT and Dr. PAINTER.

Second Section. For Undergraduates and Graduates.

20. Historical Ethics. A study of the chief ethical theories ; the members of the class are required to study the text of Aristotle, Kant, Mill, and Spencer, and to hand in well-prepared abstracts of their systems. The class-room work is devoted to a critical exposition of these and other theories by means of lectures and discussions. Wednesday, at 10 ; Friday, at 10.30. First half-year. Professor ———.

21. Theory of Ethics. A critical and constructive theory of Ethics, including a course of lectures on the fundamental postulates, concepts, and principles of Christian Ethics. Wednesday, at 10.00; Friday, at 10.30. Second half-year. Professor ———.

* To be elected.

22. Greek Philosophy. Special study of Plato's Republic. Knowledge of Greek is desirable, but not necessary for one taking this course. Lectures, prescribed readings, and theses. Tuesday and Thursday, at 10.30. Two hours, second half-year. Professor STERRETT and Dr. PAINTER.

23. History of Modern Philosophy. Lectures, with reports upon assigned readings, and discussions. Two hours, first half-year. Professor ———.

24. Theory of Knowledge. Two hours, first half-year. Professor ———.

25. History of Religions. Historical study of the chief Religions of the World. Text-books, prescribed readings, and thesis. Tuesday and Thursday, at 10.30, first term. Professor STERRETT.

26. Æsthetics. Lectures once a week during the first half-year on the essentials of the Artistic in Music, Poetry, Painting, Sculpture, and Architecture. Professor RAYMOND.

Third Section. Primarily for Graduates.

40. The Philosophy of Nature. A critical study of the fundamental concepts of Modern Physical Science. Prescribed readings, reports, and theses; Pearson's Grammar of Science; Stallo's Concepts and Theories of Modern Physics; Ward's Naturalism and Agnosticism; Holman's Matter, Energy, Force, and Work; Sterrett's Freedom of Authority. Monday, at 10.30; Wednesday, at 10, first half-year. Professor STERRETT.

41. The Critical Philosophy of Kant. Kant's Critique of the Pure Reason and the Prolegomena. Knowledge of German necessary. Two hours, first half-year. Professor STERRETT.

42. The Philosophy of Hegel. The Logik. Knowledge of German necessary. Two hours, first half-year. Professor STERRETT.

Courses 41 and 42 are given in alternate years.

43. Metaphysics. The fundamental problems of Philosophy, Materialism, Idealism, Pantheism, Theism. Taylor's Elements of Metaphysics. Royce's The World and the Individual. Haldane's Pathway to Reality. Advanced Course. Two hours, second half-year. Professor STERRETT.

44. The Philosophy of Religion. Open to those who have taken Courses 41 and 42 and 25. Hegel's Philosophie der Religion. Sterrett's Studies in Hegel's Philosophy of Religion.

Dorner's Grŭndriss der Religionsphilosophie. Two hours. Professor STERRETT.

45. The Philosophy of History. A course for graduate work. Conferences, prescribed readings, and thesis throughout the year. Dr. HARRIS.

46. Ten lectures on the Philosophy of History, supplemented by a syllabus of prescribed readings, with theses and examination. Open to students who have taken at least Courses 22 and 23 in Philosophy and prescribed courses in History. Second term. Dr. HARRIS.

47. Æsthetics. Æsthetics, considered philosophically, historically, and practically. The Nature of Beauty. Art, as distinguished from Science and Religion, and as representing both material appearances and human thoughts and emotions. Artistic Composition, as determined by the requirements of Nature and of Mind, whether manifested in special characteristics of form like Rhythm, Proportion, and Harmony of Tone or Color, or in the general themes developed in Music, Poetry, Painting, Sculpture, and Architecture. Conferences, prescribed readings, and thesis. Professor RAYMOND.

48. The Theory of the State. Lectures and collateral reading and conferences. Two hours, second half-year. Professor ———.

49. The Society of Philosophical Inquiry, of which the Head Professor of Philosophy is president, meets every Tuesday during the year. Work for graduates can be arranged in this connection to count a full course for the year.

PHYSICS.

HOWARD L. HODGKINS, Ph.D.....*Head Professor*
EDGAR BUCKINGHAM, Ph.D.....*Lecturer on Thermodynamics*
OSCAR QUICK, A.M.....*Instructor*

First Section. Primarily for Undergraduates.

1. General Physics. A recitation and lecture course, embracing the fundamental principles of mechanics, sound, heat, light, and electricity. The lectures are illustrated by experiments. Plane trigonometry is used in the course, and only students who have competed or are studying a college course in trigonometry are admitted. Monday, Wednesday, and Friday, at 4.50. Professor HODGKINS.

2. Laboratory Physics. A selected series of experiments, mainly quantitative. This course is designed to familiarize the

student with the ordinary methods of exact experimentation, and to extend the knowledge of the principles of physics as gained in Course 1. This course is taken by Bachelor of Arts students who elect Course 1. Two two-hour periods. Tuesday and Thursday, at 10.30. Professor HODGKINS and Mr. QUICK.

3. Laboratory Physics. Similar to Course 2, and required of all Bachelor of Science students. Two two-hour periods. Tuesday and Thursday, at 10.30. Professor HODGKINS and Mr. QUICK.

Second Section. For Undergraduates and Graduates.

20. Sound. A lecture and laboratory course. Three periods. Monday, at 10.30; Wednesday, at 10; Friday, at 10.30. Professor HODGKINS.

21. Heat. A lecture and laboratory course, based on Preston's Theory of Heat and Maxwell's Theory of Heat. Three periods. Monday, at 11.30; Wednesday, at 11; Friday, at 11.30 Professor HODGKINS.

22. Light. A lecture and laboratory course, based on Preston's Theory of Light and Schuster's Theory of Optics. Three periods. Monday, Wednesday, and Friday, at 5.40. Professor HODGKINS.

Third Section. Primarily for Graduates.

40. Light. Advanced study, experimental and mathematical, of some one branch of the subject. Three periods. Professor HODGKINS.

41. Thermodynamics. The first term is devoted to the development of the theory and usual methods of thermodynamics for systems devoid of passive resistances. The second term is occupied with applications to problems in Physics and Physical Chemistry. Among the subjects discussed the following may be mentioned: Thermal properties of fluids, specific and latent heats, the plug experiment; change of state, heterogeneous dissociation, the phase rule; reactions in gas mixtures, homogeneous dissociation, theory of gas and other explosive engines; electromotive forces; thermodynamic properties of bodies in the electric or magnetic field; laws of radiation. Two hours. Dr. BUCKINGHAM.

Students who desire to specialize in physics should take Courses 1 and 2 or 3 in the first year, and should also study mathematics. In the second year one of the courses, 20, 21,

or 22, may be taken; in the third year the two remaining courses may be taken. In order to do this, calculus should be studied during the second year.

The Physical Laboratory is open from 9.30 a. m. to 10 p. m., giving students opportunity to do extra work.

ROMANCE LANGUAGES.

GEORGE N. HENNING, A.M.....*Head Professor*
OSCAR L. KEITH, A.M.....*Instructor*

FRENCH.

First Section. Primarily for Undergraduates.

1. Grammar, composition, drill in pronunciation. Fraser and Squair's French Grammar. Translation and reading of nineteenth century fiction and history. (400–500 pages.) For beginners. Monday, at 10.30; Wednesday, at 10; Friday, at 10.30. Mr. KEITH.

2. Parallel with Course 1. Tuesday, Thursday, and Saturday at, 5.40. Mr. KEITH.

3. Grammar, composition, conversation. Fraser and Squair's French Grammar. Translation and reading. Daudet, *Trois Contes;* A. Dumas, fils, *la Question d'argent;* Mérimée, *Colomba;* A. France, *Sylvestre Bonnard;* Sarcey, *le Siège de Paris;* Coppée, *le Pater;* Molière, *l'Avare.* For outside reading, Zeller, *Richelieu*, or *Henri IV.* (About 1,000 pages.) Open to students who have passed in Course 1 or 2, or have fulfilled the admission requirements in Elementary French. Monday, Wednesday, and Friday, at 3.30. Professor HENNING.

4. Parallel with Course 3. Tuesday, Thursday, and Saturday, at 4.50. Mr. KEITH.

6. General survey of French literature, seventeenth to nineteenth centuries; Warren's French Prose of the Seventeenth Century, Canfield's French Lyrics, Lacombe's *Petite Histoire du peuple français*, Crane's *la Société française au XVII^e siècle*, Corneille, Molière, La Fontaine, Racine, St. Simon, Montesquieu, Marivaux, Voltaire, Buffon, Rousseau, Beaumarchais, Hugo, Musset, Michelet, Balzac, Augier, Maupassant, Pailleron. (About 1,600 pages.) Translation, analyses of works read, collateral reading and reports thereon, lectures on literature, philology and history. Composition. Grandgent's Selections for French Composition. Open to students who have

passed in Course 3 or 4, or have fulfilled the admission requirements in Advanced French. Monday, Wednesday, and Friday, at 2.30. Professor HENNING.

Second Section. For Undergraduates and Graduates.

Courses in this group are open to students who have passed in Course 6, or who otherwise satisfy the instructor of their fitness to take them.

21. Seventeenth century literature ; history, philosophy, criticism, memoirs, letters, eloquence, drama, fiction, poetry. Balzac, Descartes, Pascal, La Rochefoucauld, La Bruyère, Boileau, St. Simon, Mme. de Sévigné, Bossuet, Corneille, Racine, Molière, Fénelon, Malherbe, La Fontaine, etc. Translation, collateral reading and reports thereon, lectures on literature and history. Thesis. Not given in 1905–06. Given in 1906–07.

23. Eighteenth century literature ; history, philosophy, criticism, letters, drama, fiction, poetry. Montesquieu, Diderot, Rousseau, Voltaire, Marivaux, Destouches, Sedaine, Beaumarchais, Bernardin de St. Pierre, André Chénier, etc. Translation, collateral reading and reports thereon, lectures on literature and history. Thesis. Given in 1905–06. Not given in 1906–07. Tuesday and Thursday, at 9.30. Professor HENNING.

25. Nineteenth century literature ; history, philosophy, criticism, memoirs, travels, fiction, drama, lyric poetry. Thierry, Michelet, Mignet, Thiers, Taine, Sainte-Beuve, Brunetière, France, Lemaitre, Renan, Gautier, Mme. de Staël, Chateaubriand, Dumas père, Hugo, George Sand, Mérimée, Balzac, Flaubert, Daudet, Maupassant, Loti, de Musset, Dumas fils, Augier, Maeterlinck, Rostand, Lamartine, de Vigny, the Romantic poets, the Parnassians, the Symbolists, etc. Translation, collateral reading and reports thereon, lectures on literature and history. Thesis. Monday, Wednesday, and Friday, at 11.30. Professor HENNING.

Third Section. Primarily for Graduates.

43. Old French and philology. Darmesteter's Historical French Grammar. La Chanson de Roland, etc. Professor HENNING.

47. The comedies of Molière. Professor HENNING.

SPANISH.

First Section. Primarily for Undergraduates.

1. Grammar, composition. Hills and Ford's Spanish Grammar. Translation and reading of nineteenth century fiction and drama. (About 700 pages.) Not open to first-year students. Open only to students who have had at least one year of French or Latin. Students may not elect Spanish and Italian in the same year. Mr. KEITH.

Second Section. For Undergraduates and Graduates.

20. Translation and reading of nineteenth and seventeenth century works; history, fiction, drama, lyric poetry. (About 1,000 pages.) Lectures on literature and history. Open to students who have passed in Course 1 with at least the grade of C, or who otherwise satisfy the instructors of their fitness to take the course. Given in 1905–06. Not given in 1906–07. Tuesday and Thursday, at 10.30. Professor HENNING.

ITALIAN.

First Section. Primarily for Undergraduates.

1. Grammar, composition. Grandgent's Italian Grammar. Translation and reading of nineteenth century fiction and drama. (500–600 pages.) Not open to first-year students. Open only to students who have had at least one year of French or Latin. Students may not elect Spanish and Italian in the same year. Not given in 1905–06. Given in 1906–07.

ZOÖLOGY.

THEODORE NICHOLAS GILL, M.D., Ph.D., LL.D.....*Professor*
PAUL BARTSCH, M.S.....*Professor*
EVELYN G. MITCHELL, A.B.....*Assistant*

1. Systematic Zoölogy. I. Invertebrates. This includes lectures and laboratory work. The lectures in their scope cover all the branches of Invertebrates, and correlated with these lectures is the study and dissection of typical specimens in each group. This course is intended to familiarize the student with biological characters, classificatory laws, and the general principles of evolution.

Lecture, one hour; laboratory, one two-hour period. Monday, Wednesday, and Friday, at 5.40. Professor BARTSCH and Miss MITCHELL.

2. Systematic Zoölogy. II. Vertebrates. This includes lectures and laboratory work. The lectures will cover the various branches of Vertebrata and correlated with these is the study and dissection of typical specimens of each group. Open only to students having completed Course 1. Monday, Wednesday, and Friday, at 4.50. Professor BARTSCH and Miss MITCHELL.

Second Section. For Undergraduates and Graduates.

20. A Laboratory Course in Histology. This course is designed to acquaint the students with histological technique as well as the minute structure of the various organs composing the body of animals. Monday, Wednesday, and Friday. Professor BARTSCH.

21. Physiology. This includes lectures and laboratory work and should follow Course 3. A systematic course embracing lectures and laboratory work. The lectures are illustrated with lantern slides showing the home life of birds. The laboratory work consists in classifying bird skins, of which the University possesses an excellent series.

22. Ornithology. Special attention is directed to the study of the birds of the District of Columbia, and frequent field excursions are made to familiarize the student with the haunts and habits of these forms.

Lecture, one hour; laboratory, one two-hour period. Tuesday and Thursday, at 4.50. Professor BARTSCH.

25. Special courses for teachers in the public schools and others desiring to take up special or advanced lines of work may be arranged upon consultation with the professor.

The collections of the United States National Museum and the Smithsonian Institution are consulted in connection with all these courses.

Third Section. Primarily for Graduates.

40. A general course of lectures on the principles of zoölogy, including a consideration of the philosophy, the methods of investigation, and the systems of zoölogy as determined by comparative anatomy. The lectures are supplemented by work in the laboratory, embracing histology, microtomy, and dissection. The student is required to take up some subject or group for original investigation. The facilities and collections of the United States National Museum may be made use of. Professor GILL.

EXAMINATIONS.

Examinations are conducted under the following rules of the Board of Trustees:

Examinations for degrees shall close at least three weeks before the end of the scholastic year, and the names of all candidates for degrees who have passed a successful examination shall be officially reported to the President at least two weeks before the date of the commencement.

No student shall be admitted to an examination for promotion from a lower to a higher class or to a final examination who is in arrears for tuition and whose name has not been certified by the Assistant Treasurer to the professors proposing to hold an examination. Professors and instructors will require students entering such examinations to present their cards of admission from the Assistant Treasurer before permitting them to be examined.

LIBRARY FACILITIES.

A well-equipped reference library and reading-room is open to students from 9 a. m. to 7 p. m. It contains encyclopædias, dictionaries, standard works in the various departments of study comprised under University subjects, and the leading literary and scientific magazines and reviews.

The Library of Congress is steadily perfecting its collections of standard works in the various branches of university study, and advanced and graduate students are there given every facility for pursuing their investigations. The Public Library of the District of Columbia is being rapidly equipped with books of especial importance to students, and its facilities are available under the most favorable conditions. Under certain restrictions, the libraries of the governmental departments may also be utilized. All these libraries are within easy reach of the University.

TEACHERS' COURSES.

COMMITTEE IN CHARGE.

CHARLES E. MUNROE, *Chairman.*
WILLIAM A. WILBUR.
MITCHELL CARROLL.

For some years the University has opened certain of its courses which relate to those given in the public schools to teachers in the public schools of Washington, and two years ago a regular system was inaugurated, to be carried into effect

annually, in coöperation with the Superintendent of Schools of the District of Columbia.

For 1904–05 the following courses were offered:

Archæology, Classical. A study of the architecture and sculpture of Greece and Rome. Monday and Thursday, at 4.50. Professor CARROLL.

English. The development of the English novel, with critical studies of selected works, including some contemporary fiction. Monday and Friday, at 5.40. Professor WILBUR.

History. European history since the close of the French Revolution as an introductory study to contemporaneous politics. Tuesday and Thursday, at 4.50. Professor SWISHER.

Constitutional Law. A study of the Constitution of the United States and of litigation arising under it. Wednesday and Friday, at 5.40. Justice HARLAN.

For 1905–06 the following courses are offered:

Æsthetics. The essentials of the artistic in music, poetry, painting, sculpture, and architecture. Friday, at 4.50, for first half-year. Professor RAYMOND.

Archæology, Classical. Private and public life of the Greeks and Romans. Monday and Thursday, at 4.50. Professor CARROLL.

Architecture. A history of renaissance architecture down to modern times. Monday and Friday, at 4.50. Professor ASH.

Economics. An introductory course dealing with the nature and scope of economic science; the evolution and nature of human wants; the concept of value; the determination of price; the factors and methods of production; the movement of products, and the principles underlying the present system of wealth distribution. Tuesday and Thursday, at 3.30. Professor VEDITZ.

English. The development of the English novel, with critical studies of selected works, including some contemporary fiction. Monday and Friday, at 5.40. Professor WILBUR.

History. A critical study of the French Revolution and the later progress toward constitutional government in France and the other Continental States. Tuesday and Thursday, at 4.50. Professor SWISHER and Dr. HAMILTON.

Law, Constitutional. A study of the Constitution of the United States and of litigation arising under it. Wednesday and Friday, at 5.40, for first half-year. Justice HARLAN.

Fifteen teachers will be admitted to each of these four courses on registration without fee. Regular attendance is expected. Notes are to be taken and essays prepared, which are to be submitted when called for. Certificates may be issued on the work done, but a nominal fee will be charged for such certificates.

Application for registration tickets should be made to Mr. A. T. Stuart, Superintendent of Schools.

FEES.

1. Matriculation fee (payable only on first entry into the University)	$5
2. Library fee, per annum	2
3. Tuition fees, regular courses, per annum:	
(*a*) For ten hours (undergraduate) . .	100
(*b*) For eleven or twelve hours (undergraduate)	110
(*c*) For thirteen or more hours . . .	125
(*d*) For a Master's or an Engineering degree, following a Baccalaureate degree, payable during first year of attendance . .	100
(*e*) For a Doctor's degree, following a Master's or an Engineering degree, payable $100 during each of the first two years of attendance	200
(*f*) For a Doctor's degree, following a Baccalaureate degree, payable $100 during each of the first three years of attendance .	300
4. Tuition fees, special courses, per annum:	
(*a*) For one hour per week throughout the year	15
(*b*) For each additional hour, including the ninth	10
(*c*) For the following special courses, not taken by candidates for a degree, each . . Architecture Courses 37 and 38. Chemistry Course 4 (Assaying).	40
(*d*) For special graduate courses, not taken by candidates for a degree, each . .	40

5. In determining tuition fees, three hours of laboratory work in Chemistry and Architecture and two hours of laboratory work in other subjects count as one hour.

6. The minimum tuition fee is $15

7. Laboratory material and deposit fees, per course:

Chemistry, Course 7 (½ session):	
Material fee	5
Deposit for breakage	5
Mineralogy (½ session):	
Material fee	5
Botany laboratory courses, each:	
Material fee	10
Chemistry, Course 2 or 3:	
Material fee	10
Deposit for breakage	10
Electrical Engineering laboratory courses, each:	
Material fee	10
Physics, Course 2 or 3:	
Material fee	10
Zoölogy, Course 1, 20, or 21:	
Material fee	10
Chemistry, Course 4 (Assaying):	
Material fee	20
Chemistry laboratory courses, except 2, 3, 4 and 7, each:	
Material fee	25
Deposit for breakage	25

8. Fee for a certificate under the seal of the University. 2

9. Fee for graduation with diploma 10

10. Auditors are admitted to lecture courses for the regular tuition fees, but are not permitted to take active part in the work of the classes and will not be allowed credit, in a subsequent course of studies leading to a degree, for attendance as Auditors. No matriculation or library fee is charged.

NOTE.—Deposit fees are required to cover breakage of apparatus during the course. The amount of such fees paid in excess of the breakage will be returned.

The amount of fees is fixed by the Registrar at the time of registration in accordance with the foregoing schedule, and no change will be made therein excepting in case of a change in or withdrawal from a course of studies, and then only upon

notice in due form and from the end of the current quarter session in which such change or withdrawal shall be approved. Applications for admission to change or withdraw from a course of studies should be made on the prescribed form to be obtained from the Registrar..

PAYMENT OF FEES.

All fees are to be paid to the Assistant Treasurer. Tuition fees are payable quarterly in advance. Matriculation, library and laboratory fees are payable in full in advance.

BOARD AND ROOMS.

The price of table board and rooms varies according to locality. Good accommodations may be secured at some distance from the University building for two hundred dollars for the session of thirty-three weeks. In the neighborhood adjacent to the University, by reason of its nearness to the heart of the best business section of the city, prices range from two hundred and fifty to three hundred and fifty dollars for the session of thirty-three weeks. Students frequently form clubs for the purpose of obtaining a reduction in the cost of living. A register of approved boarding-houses is kept by the Assistant Treasurer, who will gladly furnish information in relation thereto, or in connection with any other matters conducive to the comfort of students seeking a residence in the city of Washington.

HONORABLE DISMISSION.

An honorable dismission will always be granted to any student in good standing who may desire to withdraw from the University.

For catalogues, application blanks and further information address

OTIS D. SWETT, *Registrar*,
The George Washington University,
Washington, D. C.

Department of Medicine.

I. FACULTY OF MEDICINE.

(Arranged, with the exception of the President and the Dean, in the several groups in order of collegiate seniority.)

*CHARLES W. NEEDHAM, LL.D...President of the University
*William F. R. Phillips, M.D.....Dean, Professor of Hygiene and Assistant Professor of Practical Anatomy
*J. Ford Thompson, M.D.....Professor of Surgery
*Albert F. A. King, A.M., M.D., LL.D....Professor of Obstetrics and Dean Emeritus of the Faculty
George N. Acker, A.M., M.D.....Professor of Pediatrics and of Clinical Medicine
Henry C. Yarrow, M.D.....Professor of Dermatology
*D. Kerfoot Shute, A.B., M.D.....Professor of Anatomy and of Clinical Ophthalmology
*William P. Carr, M.D.....Professor of Physiology and of Clinical Surgery
*Sterling Ruffin, M.D.....Professor of Theory and Practice of Medicine and of Clinical Medicine
William K. Butler, A.M., M.D.....Professor of Ophthalmology
Thomas E. McArdle, A.M., M.D. .....Professor of Minor Surgery
John Van Rensselaer, A.B., M.D.....Professor of Clinical Surgery
*Charles Edward Munroe, Ph.D. .....Professor of Chemistry and Toxicology
Charles W. Richardson, M.D., Professor of Laryngology and Otology
George Wythe Cook, M.D.....Professor of Clinical Medicine
*J. Wesley Bovée, M.D.....Professor of Gynecology
*Thomas A. Claytor, M.D..... .....Professor of Materia Medica and Therapeutics and of Clinical Medicine
A. R. Shands, M.D.....Professor of Orthopedic Surgery
*James Carroll, M.D.....Professor of Bacteriology and Pathology
Randolph B. Carmichael, M.D....Professor of Clinical Dermatology
Francis P. Hagner, M.D.....Clinical Professor of Genito-Urinary Surgery and Venereal Diseases
John B. Nichols, M.D.....Professor of Histology
William C. Woodward, M.D., LL.M.....Professor of Medical Jurisprudence
Albert L. Staveley, M.D.....Clinical Professor of Gynecology
William A. White, M.D.....Professor of Mental Diseases

FRANCIS P. MORGAN, A.B., M.D.....Lecturer on Materia Medica
EDWARD E. MORSE, M.D.....Assistant Professor of Obstetrics
EDWARD G. SEIBERT, M.D.....Assistant Professor of Chemistry
B. L. HARDIN, M.D.....Lecturer on Physical Diagnosis
JULIAN M. CABELL, M.D.....Assistant Professor of Obstetrics
D. WEBSTER PRENTISS, M.D.....Assistant Professor of Histology
C. S. WHITE, M.D.....Assistant Professor of Physiology
J. F. MITCHELL, M.D.....Assistant Professor of Surgical Pathology
JOSEPH M. HELLER, M.D.....Lecturer on Diseases of the Tropics
JOHN R. WELLINGTON, M.D....Assistant Professor of Clinical Surgery

SAMUEL H. GREENE, JR., M.D.....Instructor in Anatomy
HOMER S. MEDFORD, M.D.....Instructor in Obstetrics
L. H. REICHELDERFER, M.D.....Instructor in Medicine
EDGAR P. COPELAND, M.D.....Instructor in Surgery
J. L. RIGGLES, M.D.....Instructor in Anatomy
H. C. MACATEE, M.D....Instructor in Medicine and Clinical Instructor
G. BROWN MILLER, M.D.....Instructor in Gynecology
GEORGE M. RUFFIN, M.D.....Instructor in Anatomy
THOMAS M. PRICE, Ph.D.....Instructor in Bio-Chemistry
EUGENE LE MERLE, M.D.....Clinical Instructor in Nervous Diseases and Assistant Instructor in Bacteriology and Pathology
L. H. TAYLOR, M.D.....Instructor in Clinical Medicine
HENRY R. ELLIOTT, M.D.....Instructor in Physiology
WALTER H. MERRILL, M.D.....Instructor in Electro-Therapeutics
T. S. D. GRASTY, M.D.....Instructor in Bacteriology and Pathology
H. H. DONNALLY, M.D.....Instructor in Bacteriology and Pathology
O. A. M. MCKIMMIE, M.D.....Clinical Instructor in Laryngology and Ophthalmology
H. S. DYE, M.D .....Clinical Instructor in Laryngology and Ophthalmology

VIRGIL B. JACKSON, M.D.....Assistant Demonstrator of Anatomy
EDWARD ELLIOTT RICHARDSON, M.D., M.S.....Assistant Demonstrator of Anatomy
W. A. FRANKLAND, M.D.....Assistant Demonstrator of Anatomy and Assistant Instructor in Clinical Gynecology
R. M. LITTLE, M.D.....Assistant Demonstrator of Anatomy
H. W. LAWSON, M.D., B.S.....Assistant Demonstrator of Anatomy
JOSEPH D. ROGERS, M.D.....Assistant Demonstrator of Anatomy
THOMAS C. HOLLOWAY, M.D.....Assistant Instructor in Physiology
HENRY M. JEWETT, M.D.....Assistant Instructor in Histology
C. L. DAVIS, M.D.....Assistant Instructor in Histology
J. LAWN THOMPSON, M.D.....Assistant in Minor Surgery
ARTHUR COMPTON.....Librarian
THOMAS H. LEGG.....Librarian

*Indicates member of Executive Faculty.

UNIVERSITY HOSPITAL.

VISITING STAFF.

J. FORD THOMPSON, M.D. ..... Visiting Surgeon
W. P. CARR, M.D. ..... Visiting Surgeon
STERLING RUFFIN, M.D. ..... Visiting Physician
THOMAS A. CLAYTOR, M.D. ..... Visiting Physician
GEORGE N. ACKER, M.D. ..... Visiting Physician
A. F. A. KING, A.M., M.D., LL.D. ..... Visiting Obstetrician
JULIAN M. CABELL, M.D. ..... Associate Visiting Obstetrician
E. E. MORSE, M.D. ..... Associate Visiting Obstetrician
HENRY C. YARROW, M.D. ..... Visiting Dermatologist
D. KERFOOT SHUTE, M.D. ..... Visiting Ophthalmologist
W. K. BUTLER, M.D. ..... Associate Visiting Ophthalmologist
CHARLES W. RICHARDSON, M.D. ..... Visiting Laryngologist
J. WESLEY BOVÉE, M.D. ..... Visiting Gynecologist
JAMES CARROLL, M.D. ..... Pathologist

OUT-PATIENT DEPARTMENT.

SURGICAL DISPENSARY.

A. R. SHANDS, M.D. ..... Chief Surgeon
J. L. RIGGLES, M.D. ..... Surgeon
R. S. BEALE, M.D. ..... Surgeon
T. S. D. GRASTY, M.D. ..... Surgeon
E. L. MASON, M.D. ..... Surgeon

MEDICAL DISPENSARY.

B. L. HARDIN, M.D. ..... Chief Physician
E. P. COPELAND, M.D. ..... Physician
W. A. FRANKLAND, M.D. ..... Physician
S. H. GREENE, JR., M.D. ..... Physician
H. C. MACATEE, M.D. ..... Physician
GEORGE M. RUFFIN, M.D. ..... Physician
THOMAS DOWLING, M.D. ..... Physician

GYNECOLOGICAL DISPENSARY.

J. WESLEY BOVÉE, M.D. ..... Chief Gynecologist
G. BROWN MILLER, M.D. ..... Gynecologist
A. B. HOOE, M.D. ..... Gynecologist
V. B. JACKSON, M.D. ..... Gynecologist
D. W. PRENTISS, M.D. ..... Gynecologist

EAR, THROAT, AND NOSE DISPENSARY.

CHARLES W. RICHARDSON, M.D. ..... Chief Surgeon
E. G. SEIBERT, M.D. ..... Surgeon
O. A. M. MCKIMMIE, M.D. ..... Surgeon

GENITO-URINARY DISPENSARY.

FRANCIS R. HAGNER, M.D. ..... Chief Surgeon
HENRY R. ELLIOTT, M.D. ..... Surgeon

EYE DISPENSARY.

D. KERFOOT SHUTE, M.D. ..... Chief Surgeon
E. G. SEIBERT, M.D. ..... Surgeon

SKIN DISEASE DISPENSARY.

HENRY C. YARROW, M.D. ..... Chief Surgeon
RANDOLPH B. CARMICHAEL, M.D ..... Surgeon

GENERAL STATEMENT.

The Department of Medicine of the George Washington University is, in the chronological order of its establishment, the seventeenth Medical School in the United States. The first course of lectures began in March, 1825. For many years the school was known as the National Medical College; subsequently as the Department of Medicine of the Columbian University. By virtue of an Act of Congress, approved January 23, 1904, the Columbian University changed its name to "The George Washington University."

When first established, and for many years subsequent, this school, like most others in this country, gave only a two years' course of five months each. In 1878 the course was lengthened by the establishment of a Spring Session, devoted to lectures in certain special subjects. In 1879 the course was lengthened to seven months and attendance upon three annual sessions required; in 1893 attendance upon four regular courses was made obligatory upon all candidates for the degree of Doctor of Medicine. The present course of instruction for the degree of Doctor of Medicine extends through four years of eight months each. In order to increase the facilities for actual bedside teaching, the University Hospital was established in 1898 and made a part of the Department of Medicine. In 1902 the old building, in which the exercises were held since 1867, gave place to the present enlarged and commodious building.

The academic year begins on the last Wednesday in September and ends on the first Wednesday in June. The next session, the eighty-fifth, will begin September 27, 1905, and will end June 6, 1906. Students must register their names promptly at the Registrar's office at the beginning of the session, in order

that their time of study shall count as a full year. Examinations are held at the conclusion of the instruction in each subject; examinations are written, oral, and practical, so far as the nature of the subjects permit. Degrees are conferred at Commencement, the first Wednesday in June, and at the Winter Convocation, February 22.

For catalogues and other information address either the Registrar of the University or the Dean of the Department of Medicine, The George Washington University, Washington, D. C.

ADMISSION.

Candidates for matriculation must show that they are fitted by previous education to study medicine. For this purpose they must present a satisfactory certificate of their attainments from an approved school or college, or they must pass an examination.

Beginning with the session of 1909–10, all candidates for matriculation will be required to present evidence of such proficiency in Theoretical and Inorganic Chemistry as will enable them to pursue the courses in Organic and Physiological Chemistry given in the Department of Medicine. Candidates unable to present such evidence must submit to an examination.

Candidates are admitted without examination:

(1) Upon presenting a diploma or certificate of a reputable college conferring on them the degree of A.B. or B.S., or an equivalent degree in the arts and sciences.

(2) Upon presenting a diploma or certificate of graduation from a high school, academy, or preparatory school approved by the University as maintaining an adequate standard.

(3) Upon presenting a certificate of admission to the freshman class of a reputable college.

(4) Upon presenting a medical student's certificate issued by a State board.

(5) Upon presenting a certificate of admission to another medical school approved by the University as maintaining an adequate standard.

Candidates unable to comply with the foregoing requirements are admitted upon passing an examination based upon the general requirement for admission to the Freshman Class of the Department of Arts and Sciences of the University, which is a four-year high-school course, or its equivalent. This examination comprises subjects selected from the annexed list equal to 15 units. For admission to the Department of Medicine eight (8) of the 15 units are required in the following subjects:

	Units.
English	3
Mathematics	3
Physics	1
Latin	1
Total	8

The other 7 units may be selected from the other subjects. A unit is considered the equivalent of one year's high-school work in a subject.

LIST OF SUBJECTS.

	Units.
English:	
(*a*) Grammar	1
(*b*) Rhetoric and Composition	1
(*c*) Literature—a knowledge of the form, subject-matter, and literary history of prescribed works is required	1

The following are the works prescribed for 1905-06: Burke's Speech on Conciliation, Macaulay's Essay on Addison, Macaulay's Essay on Milton, Milton's L'Allegro, Il Penseroso, Comus, and Lycidas; Shakespeare's Macbeth. Equivalent reading may be offered.

	Units.
Latin:	
(*a*) Elementary Grammar	1
(*b*) Cæsar's Commentaries, Books I–IV	1
Greek:	
(*a*) Elementary Grammar	1
(*b*) Xenophon or Homer	1
Modern Languages:	
(*a*) French, translation of easy prose	1
(*b*) German, translation of easy prose	1
History:	
United States	1
English	1
Roman	1
Greek	1
General	1
Mathematics:	
(*a*) Algebra through quadratics	1½
(*b*) Plane Geometry	1
(*c*) Plane Trigonometry	½
Sciences:	
Physics	1
Chemistry	1
Astronomy	½
Biology	1

	Units.
Geology	½
Botany	1
Physical Geography	½
Physiology	½

For the benefit of the candidate it may be stated that the scope of the different subjects is that comprised in standard high-school text-books.

Candidates may offer other subjects than those stated in the foregoing list of subjects, and if they are acceptable examinations will be arranged. A candidate may offer certificates of an approved school for work done in any of the foregoing subjects, and will be credited with the units represented by such work. A candidate failing to pass in two of the subjects of his examination may be admitted to the first year upon the condition that he make up the deficiency before entering the second-year class. The examinations are conducted by examiners appointed by the Superintendent of Schools of the District of Columbia.

As the laws relating to the preliminary educational qualifications required of students of medicine differ in many of the States of the Union, candidates are advised to make themselves familiar with the provisions of the medical statutes of the States in which they contemplate applying for license to practice. Attention to this precaution may save future embarrassment.

Examinations for admission to the first-year medical class will be held in Hall No. 2 of the Department of Medicine in June and in September.

The following is the schedule for both examinations:

June 5 and September 25, 10 a. m., English.
June 6 and September 22, 10 a. m., Mathematics.
June 7 and September 23, 10 a. m., Physics.
June 8 and September 22, 1 p. m., Latin.
*June 9 and September 26, 10 a. m., Electives.
*June 9 and September 26, 1 p. m., Electives.

ADMISSION OF STUDENTS FROM OTHER SCHOOLS.

Students of other recognized and approved medical schools may be admitted to this school as follows:

Those qualified to enter the second year of their own school may be admitted to the second-year class of this school; those qualified to enter the third year of their own school to the third

*Subjects to be announced on first day.

year of this school, and those qualified to enter the fourth year of their own school to the fourth year of this school, provided, however, that the subjects pursued by the applicants in their previous year or years are reasonably equivalent to those required in the same year or years of this school, and that the requirements for advancement from class to class are the equivalent of those in this school. Applicants may be required to submit to examination in all the subjects pursued by the previous class of this school.

ADVANCED STANDING.

No advanced standing can be given for degrees of A.B. or B.S. or for degrees in Dentistry, Veterinary Medicine, or Pharmacy.

Students holding degrees in Arts, Science, or Philosophy, who in the course of study for their degrees have pursued studies in chemistry, physiology, anatomy, histology, bacteriology, or pathology, equivalent to the courses in these subjects in this school, may upon satisfactory evidence of their proficiency be credited with such work, provided an equivalent amount of work be taken in some other subjects to be approved by the Faculty.

SPECIAL STUDENTS.

Students, approved by the Dean, not candidates for the degree of Doctor of Medicine, may be admitted without examination to pursue any course they may elect. Such courses cannot, however, be subsequently considered as time spent in the course for the degree of Doctor of Medicine. Nor can such students enter upon the regular medical course without complying with all the regular requirements for admission.

WITHDRAWALS.

A certificate of work actually done will be given to any student wishing to withdraw or transfer to some other school during the session. Written notice of such withdrawal or transfer must be filed with the Dean at the time of requesting the certificate, and the student must have paid all fees and dues chargeable against him up to the end of the quarter in which he withdraws.

CLASSIFICATION OF STUDENTS.

Students are divided into four classes, according to their proficiency, and the time spent, viz., first year, second year, third year, and fourth year. Students cannot advance to a higher

class unless they pass the examinations in the major subjects of the class in which they are registered, and they can be conditioned in not more than two minor subjects. Students failing in a major subject and not more than two minor subjects will be permitted at the fall examination in September a reëxamination in the subjects in which they fail. The Faculty may dismiss any student from the school, if in its judgment such student be deemed an unsuitable person, intellectually or otherwise, for the profession of medicine.

METHOD OF INSTRUCTION.

A change in the arrangement of the subjects of the curriculum goes into effect with the session of 1905–06. This change is made in order to secure a more logical correlation of the subjects, enabling the student to devote his time to better advantage.

A schedule showing in detail the hours of recitation, etc., is preparing and will be issued as soon as completed. The aggregate for the four years is not less than 4,000 hours.

The subjects studied in each year are shown in the following table:

First year.	Second year.	Third year.	Fourth year.
Histology.	Organic and Physiological Chemistry.	Practice.	Clinical Medicine.
Anatomy.	Bacteriology.	Surgery.	ClinicalObstetrics.
Physiology.	Pathology.	Obstetrics.	Clinical Surgery.
General Chemistry.	Materia Medica.	Therapeutics.	Laryngology.
	Hygiene.	Gynecology.	Otology.
	Clinical Microscopy.	Clinics.	Ophthalmology.
	Physical Diagnosis.		Dermatology.
			Psychiatry.
			Pediatrics.

The general order of study is as follows:

First year, first half. Histology, Anatomy, Lectures on General Chemistry.

First year, second half. General Chemistry, Physiology.

Second year, first half. Organic and Physiological Chemistry, Bacteriology.

Second year, second half. Pathology, Materia Medica and Pharmacology, Hygiene, Clinical Microscopy, Physical Diagnosis.

During the third year Therapeutics, Surgery, Obstetrics, Practice, and Gynecology are studied.

The greater part of the fourth year is devoted to clinical work in the hospitals. During this year, however, general instruction is also given in Mental Diseases, Dermatology, Ophthalmology, Laryngology, and Otology. Not less than 1,000 hours of clinical work is required.

OPTIONAL FIVE-YEAR COURSE.

Beginning with the session of 1905–06 a five-year optional course is offered. In this course the subjects, selected from the regular four-year course, are as follows:

First year.	Second year.	Third year.	Fourth year.	Fifth year.
Anatomy.	Physiological and Organic	Bacteriology.	Practice.	Clinical Medicine.
Histology.	Chemistry.	Pathology.	Surgery.	Clinical Obstetrics.
General Chemistry.	Physiology.	Hygiene.	Obstetrics.	Clinical Surgery.
	Materia Medica.	Therapeutics.	Gynecology.	Laryngology.
		Clinical Microscopy.		Otology.
				Ophthalmology.
				Dermatology.
				Psychiatry.
				Pediatrics.

This course requires an average of not less than 800 hours annually.

Examinations are held at the end of each course. Subsequently recitations are had in each subject in order that the knowledge acquired may be kept fresh in mind. A general examination is held at the end of the fourth year, for the optional course at the end of the fifth year.

ANATOMY.

D. KERFOOT SHUTE, A.B., M.D.....*Professor of Anatomy*
W. F. R. PHILLIPS, M.D.....*Assistant Professor of Practical Anatomy*
GEO. B. HEINECKE, M.D.....*Assistant Demonstrator of Anatomy*
VIRGIL B. JACKSON, M.D.....*Assistant Demonstrator of Anatomy*
E. E. RICHARDSON, M.D., M.S.. ..*Assistant Demonstrator of Anatomy*
W. A. FRANKLAND, M.D.....*Assistant Demonstrator of Anatomy*
S. H. GREENE, JR., M.D.....*Instructor in Anatomy*
J. L. RIGGLES, M.D.....*Instructor in Anatomy*
R. M. LITTLE, M.D.....*Assistant Demonstrator of Anatomy*
GEO. M. RUFFIN, M.D.. .....*Instructor in Anatomy*
H. W. LAWSON, M.D .....*Assistant Demonstrator of Anatomy*
JOS. D. RODGERS, M.D.....*Assistant Demonstrator of Anatomy*

The course in Anatomy is given in a series of lectures, demonstrations, recitations from text-books, and practical laboratory work. The purpose of the lectures is to prepare the student for his practical work in the laboratory. The lectures are illustrated by lantern slides, models, charts, and diagrams. The class is divided into small sections for the purpose of demonstrating the bones, joints, actual dissections, and frozen sections. The student, having been so prepared, is required to dissect satisfactorily one lateral half of the cadaver. Throughout the course every opportunity is taken to emphasize the application of Anatomy to the practice of medicine in all its departments.

Text-books: Cunningham's Text-book of Anatomy, Cunningham's Manual of Practical Anatomy.

Collateral reading: Quain's Anatomy, Spalteholz's Anatomy, Taylor's Applied Anatomy, Wiedersheim's Structure of Man.

GRADUATE COURSE IN NEUROLOGY.

This course includes laboratory work, readings, and recitations. The nervous system is investigated in typical animals of the different classes, especially with the view of gaining some insight into the phylogeny of the central nervous system in man. The growth of the brain and its physical characters as related to intelligence are investigated. The histology and embryology of the central nervous system and the sense organs are studied. A history of the guiding conceptions in neurology is to be acquired. The course is designed to inculcate a sound knowledge of the architecture and functions of the nervous system of man for the use of students of anatomy, medicine, and psychology.

HISTOLOGY.

JOHN B. NICHOLS, M.D.....*Professor of Histology*
D. WEBSTER PRENTISS, M.D.....*Assistant Professor of Histology*
HENRY M. JEWETT, M.D.....*Assistant Instructor in Histology*
C. L. DAVIS, M.D.....*Assistant Instructor in Histology*

Instruction in Histology is given in the first half of the first year. The minute structure of the tissues and organs of the body is presented in a systematic course of lectures illustrated by specimens thrown on the screen by means of the projection microscope. Subsequently the same structures are studied under the microscope. Recitations are held regularly upon the subjects shown and studied. Practical instruction is given in microscopical technique and in the care and manipulation of the microscope and the preparation of specimens.

Text-book: Nichols' Histology.

Collateral reading: Piersol's Histology, Böhm and Davidoff's Histology.

PHYSIOLOGY.

WILLIAM P. CARR, M.D.....*Professor of Physiology*
CHARLES S. WHITE, M.D.....*Assistant Professor of Physiology*
H. C. ELLIOTT, M.D.....*Instructor in Physiology*
T. C. HOLLOWAY, M.D.....*Assistant Instructor in Physiology*

This course consists of lectures, recitations, conferences, and laboratory exercises. Lectures are given daily during the second half of the first year, and cover all the important facts and theories pertaining to the subject. The lectures are illustrated by diagrams, models, and prepared specimens. Recitations are held daily on assigned lessons from a standard text-book. Conferences are held weekly. The practical work is conducted in a well-equipped laboratory provided with modern apparatus. An abundant supply of material is kept throughout the year. Each student is required to set up apparatus and perform a number of experiments under the direction of an instructor. Demonstrations are given only when the experiment is such that it cannot be carried out by the student. The student is required to keep a record of the exercises performed, and these are regularly criticised by the instructors. The class is divided into small sections, so that each student receives a large amount of personal attention.

Text-book: Kirke's Physiology.

Collateral reading: Landois' Physiology, American Text-book of Physiology.

CHEMISTRY.

CHARLES E. MUNROE, Ph.D.....*Professor of Chemistry and Toxicology*
EDWARD G. SEIBERT, M.D.....*Assistant Professor of Chemistry*
THOMAS M. PRICE, Ph.D.....*Instructor in Bio-Chemistry*
OTIS D. SWETT, B.S.....*Instructor in Chemistry*
ELMER S. NEWTON, B.A.....*Assistant*
ARTHUR N. TASKER, B.A.....*Assistant*

General Chemistry. A series of illustrated lectures, accompanied by recitations and exercises, on theoretical, inorganic, organic, and technical chemistry. Tuesday, Thursday, and Saturday, at 4.50 p. m. Professor MUNROE, Mr. SWETT.

Organic Chemistry. A series of lectures and recitations on the acyclic and cyclic hydrocarbons and their derivatives, with special reference to physiology and medicine. Monday and Thursday, at 5.40 p. m. Professor MUNROE.

Physiological Chemistry. A series of lectures and recitations on the proximate principles of the human body, such as the proteids, carbohydrates, fats, and the relation of the chemical constitutions of these bodies to physiological processes, together with a consideration of the principal secretions and excretions of the human body. Asst Professor SEIBERT.

Analytical Chemistry. A brief course in qualitative and quantitative analysis, with a view to acquainting the student with those methods which may be applied in medicine and the special tests for the alkaloids. Professor MUNROE, Asst. Professor SEIBERT, Assistants NEWTON and TASKER.

Clinical Analysis. A laboratory course covering urinanalysis, examinations of the gastric fluid, analyses of milk and of water, a study of alkaloidal reactions, and a practical examination of the chemical properties of the substances treated of in the course of physiological chemistry. Professor MUNROE, Asst. Professor SEIBERT, Assistants NEWTON and TASKER.

Text-books: Simon's Manual of Chemistry, Platt's Manual of Qualitative Analysis and Medical Chemistry.

Collateral reading: Hammarsten's Physiological Chemistry, Richter's Organic Chemistry, Barker's Text-book of Elementary Chemistry.

ADVANCED WORK.

Bio-Chemistry. A laboratory course in the chemical examination of some of the chief foodstuffs, the tissues and fluids of the body, and the products of certain organisms; also the

isolation of the digestive enzymes and a study of their action *in vitro*. Dr. PRICE.

MATERIA MEDICA AND THERAPEUTICS.

THOMAS A. CLAYTOR, M.D.....*Professor of Materia Medica and Therapeutics*
FRANCIS P. MORGAN, M.D.....*Lecturer on Materia Medica*
WALTER H. MERRILL, M.D..... *Instructor in Electro-Therapeutics*
.....*Instructor in Pharmacology*

This course is given in the second and third years.

Second year. (1) Lectures upon Materia Medica, including a demonstration of drugs and their preparations. (2) Recitations upon the preparations, their doses, and the various antidotes for poisons. (3) Practical exercises in prescription writing. (4) An optional course in Pharmacy is offered.

Third year. (1) Systematic lectures upon the physiological action of drugs and their effects in health and disease, their therapeutic uses, and their methods of administration. (2) Lectures and section demonstrations in electro-therapeutics. (3) Demonstrations in the laboratory illustrating the physiological action of the more important drugs. (4) Prescription writing, in which the students are given hypothetical cases for which to prescribe. Prescriptions are corrected and returned to the students. Students are also required to write prescriptions upon the black-board before the class, and other members are called upon to criticise, correct mistakes, suggest improvements or objections.

Text-book: Wood's Therapeutics.

Collateral reading: Hare's Practical Therapeutics, Culbreth's Materia Medica and Pharmacy.

BACTERIOLOGY AND PATHOLOGY.

JAMES CARROLL, M.D.....*Professor of Bacteriology and Pathology*
T. S. D. GRASTY, M.D... ....*Instructor in Bacteriology and Pathology*
H. H. DONNALLY, M.D.....*Instructor in Bacteriology and Pathology*
EUGENE LE MERLE, M.D..... .....*Assistant Demonstrator of Bacteriology and Pathology*

The course in Bacteriology and Pathology is given in the third year.

In Bacteriology an effort is made to give the student a practical knowledge of (1) the preparation of the various culture media; (2) the principles of disinfection and sterilization, and

(3) the methods of cultivating, staining, and studying bacteria. Special attention is given to the pyrogenic organisms and the bacilli of diphtheria and tuberculosis.

The latter half of the session is devoted to Pathology, and the student is now prepared to appreciate the association of bacteria with certain definite lesions in the tissues. After the detailed study of inflammation, the diseases of the various organs are taken up in succession. For this purpose sections illustrating the various pathological conditions are carefully selected and given to the student to be stained, mounted, and studied under the immediate supervision of an instructor. These sections thereafter become the property of the student. The course terminates with the microscopical study of the several varieties of tumors.

The course in Clinical Microscopy is given at the conclusion of that in Pathology. It embraces the study of fresh and stained preparations of human blood in normal and pathological conditions; the Widal test for typhoid fever; the developmental stages of the malarial parasites in the blood and in the mosquito; the common forms of intestinal parasites and the microscopical examination of the urine. In the fourth year students are required to spend two weeks in the clinical laboratory of the University or other approved hospitals.

Text-books: Abbott's Principles of Bacteriology, Zeigler's Pathological Anatomy.

ADVANCED WORK.

Advanced students who desire to continue the work will be encouraged to undertake bacteriological and pathological studies of the cases that come to autopsy.

Candidates seeking Master's degrees may undertake special studies and practical research work in Bacteriology, provided they have already taken at least one course of study in this subject, including elementary practical work in the laboratory.

Candidates for the degree of Doctor of Philosophy may elect to take Bacteriology either as a major or a minor topic. In the former case they must submit evidence to show that they have already received at least a single complete course of instruction, including the necessary elementary practical work in this subject.

HYGIENE.

W. F. R. PHILLIPS, M.D.....*Professor of Hygiene*

The course in Hygiene is devoted to teaching the relations of habits and surroundings to health. Consideration is given

to domestic and municipal sanitation and to the principles underlying legislative interference in matters of public health. This course is given principally by recitation from a prescribed text-book. The subject is taught in the second year.

Text-book: Harrington's Hygiene.

Collateral reading: Notter and Firth's Hygiene.

SURGERY.

J. Ford Thompson, M.D. ..... *Professor of Surgery*
Thos. E. McArdle, M.D. ..... *Professor of Minor Surgery*
A. R. Shands, M.D. ..... *Professor of Orthopedic Surgery*
James F. Mitchell, M.D. ..... *Assistant Professor of Surgical Pathology*
E. P. Copeland, M.D. ..... *Instructor in Surgery*
J. Lawn Thompson, M.D. ..... *Assistant in Minor Surgery*

The instruction given in this course embraces systematic lectures upon the principles and practice of surgery. Recitations are held twice a week, in which the subjects presented by the lecturer are impressed upon the students. The different surgical operations are illustrated upon the cadaver, and the uses of all the important surgical instruments and appliances are demonstrated in the same manner.

Minor Surgery. Practical instruction is given in the application of splints, bandages, and dressings used in the various surgical diseases and injuries. Lectures and practical instruction are also given in the preparation of materials used in antiseptic and aseptic surgery, the preparation of the patient, sterilization of the instruments, and the methods of administering anesthetics.

Orthopedics. A course of lectures and recitations on the pathology, etiology, course, and termination of chronic joint diseases is given.

Surgical Pathology. A systematic series of demonstrations upon the pathological anatomy of surgical diseases and injuries is given. These demonstrations are supplemented by reference to microscopical specimens, charts, photographs, and diagrams.

Text-book: American Text-book of Surgery, Wharton's Minor Surgery.

Collateral reading: von Bergmann's System of Surgery, Park's Surgery by American Authors.

CLINICAL SURGERY.

J. FORD THOMPSON, M.D.....*Professor of Clinical Surgery*
CHARLES W. RICHARDSON, M.D.....*Clinical Professor of Laryngology*
JOHN VAN RENSSELAER, A.B., M.D. .... *Clinical Professor of Surgery*
W. K. BUTLER, M.D.....*Clinical Professor of Ophthalmology*
D. KERFOOT SHUTE, A.B., M.D....*Clinical Professor of Ophthalmology*
WILLIAM P. CARR, M.D.....*Professor of Clinical Surgery*
A. R. SHANDS, M.D.....*Clinical Professor of Orthopedic Surgery*
FRANCIS R. HAGNER, M.D., *Clinical Professor of Genito-Urinary Surgery*
JOHN R. WELLINGTON, M.D....*Assistant Clinical Professor of Surgery*

General Surgery. In the third year amphitheater clinics are given, at which the general principles of surgical diagnosis and of operative technique and procedure are emphasized and illustrated.

General and Special Surgery. In the fourth year the class is divided into sections for the study and examination of surgical cases in the hospital wards. The students are also assigned to work as dressers and assistants on the surgical out-patient departments of the different hospitals. Practical work is required of each student in preparation of dressings, sterilization of instruments, and operations on the cadaver. In the latter part of the year each student is given an opportunity to assist at a major operation. The clinical work is supplemented by the study and discussion of case histories.

In Ophthalmology, Otology, and Laryngology the students are required to attend a certain number of clinics, and each student must report upon one assigned case.

In Orthopedics they are required to take clinical instruction in the application of special apparatus and of plaster of paris to the correction of deformities.

Instruction in Genito-Urinary surgery and in cystoscopy is given in clinics and in section work.

OBSTETRICS.

ALBERT F. A. KING, A.M., M.D., LL.D.....*Dean Emeritus, Professor of Obstetrics*
EDWARD E. MORSE, M.D.. .....*Assistant Professor of Obstetrics*
JULIAN M. CABELL, M.D.....*Assistant Professor of Obstetrics*
H. S. MEDFORD, M.D .....*Instructor in Obstetrics*

The course in Obstetrics comprises a series of lectures on the science and art of midwifery, and is given in the third

year. The chief purpose of the lecturer is to arrange, simplify, and explain the matters studied in the text-books, so as to render them more easily intelligible and to indicate their relative importance. The lectures are illustrated by diagrams, models, manikins, natural preparations, and instruments. The class is divided into sections, and each student performs various obstetrical operations upon the manikin. Recitations from text-books are held throughout the term. In the fourth year clinical instruction in obstetrics is given, the class being divided into small sections and each section being required to attend a stated number of cases.

Text-book: King's Manual of Obstetrics.

Collateral reading: Hirst's Obstetrics, Williams' Obstetrics, Jewett's Practice of Obstetrics.

THEORY AND PRACTICE OF MEDICINE.

STERLING RUFFIN, M.D.....*Professor of Theory and Practice*
B. L. HARDIN, M.D.....*Lecturer on Physical Diagnosis*
L. H. REICHELDERFER, M.D.....*Instructor in Medicine*
H. C. MACATEE, M.D.....*Instructor in Medicine*

The method of instruction employed in this subject is as follows: (1) Lectures with weekly recitations. (2) Clinical lectures at the University Hospital, with practical instructions in the art of diagnosis and methods of taking and recording the history of medical cases. (3) Laboratory instruction in the use of instruments of research for the clinical study of sputum, blood, feces, etc. (4) A course of lectures to the class in physical diagnosis.

Text-books and works of reference: Osler's Practice of Medicine, Tyson's Practice of Medicine, Anders' Practice of Medicine, Saling and Kalteyer's Modern Medicine, Hare's Practical Diagnosis, Musser's Clinical Diagnosis, Simon's Clinical Diagnosis, Klemperer's Clinical Diagnosis, Cabot's Clinical Examination of the Blood.

CLINICAL MEDICINE.

GEO. N. ACKER, A.M., M.D.....*Professor of Clinical Medicine*
G. WYTHE COOK, M.D.....*Professor of Clinical Medicine*
THOS. A. CLAYTOR, M.D.....*Professor of Clinical Medicine*
STERLING RUFFIN, M.D.....*Professor of Clinical Medicine*
EUGENE LE MERLE, M.D.....*Clinical Instructor in Nervous Diseases*
H. C. MACATEE, M.D.....*Clinical Instructor in Medicine*
L. H. TAYLOR, M.D.....*Instructor in Clinical Medicine*

Clinical Medicine is taught during the third and fourth years. Instruction is given by means of clinical lectures, ward classes, actual bedside work by the students, and conferences at which the cases studied are thoroughly discussed.

The work for the third and fourth years is graded and distinct.

Third year: The class is divided into sections, and weekly each section receives instruction in clinical diagnosis. An amphitheater clinic is given weekly, at which methods of diagnosis and treatment are presented and the use of instruments of precision illustrated and explained.

Fourth year: The class is divided into sections of two students each. These sections, under the direction of instructors, are held responsible for the conduct of the cases assigned them. They are required to obtain the histories, make the physical examination, determine the diagnosis, and institute the treatment; they also make the necessary clinical laboratory examinations.

Weekly conferences are held, at which the cases studied by the sections are presented and discussed under the supervision of the clinical teachers.

Amphitheater clinics are given, at which interesting or unusual cases are presented and explained by the clinical professors.

The clinical instruction is also supplemented by the study and discussion of case histories.

GYNECOLOGY.

J. Wesley Bovée, M.D.....*Professor of Gynecology*
G. Brown Miller, M.D.....*Instructor in Gynecology*
A. L. Staveley, M.D.....*Professor of Clinical Gynecology*
W. A. Frankland, M.D ...*Assistant Instructor in Clinical Gynecology*

The subject of Gynecology is taught in the third year in a course of lectures and text-book recitations. In the fourth year the class is taken in sections of one to two students each into the Gynecological Dispensaries for clinical instruction in examinations, diagnosis, and treatment. In larger sections the class attends amphitheater clinics given by the Professors of Gynecology and Clinical Gynecology.

Text-book: Hirst's Diseases of Women.

Collateral reading: Dudley's Gynecology, Penrose's Diseases of Women, Montgomery's Text-book of Gynecology.

NERVOUS DISEASES.

.....*Professor of Nervous Diseases*

Lectures and clinics are given upon the more common and important nervous affections.

Text-book:

LARYNGOLOGY AND OTOLOGY.

CHARLES W. RICHARDSON, M.D..*Professor of Laryngology and Otology*
O.A.M. MCKIMMIE, M.D.,*Clinical Instructor in Laryngology and Otology*
H. S. DYE, M.D..... *Clinical Instructor in Laryngology and Otology*

This course comprises lectures and clinical instruction on diseases of the nasal passages, pharynx, larynx, and also the ear. Practical demonstrations are given in the use of the laryngoscope and other instruments required in these special branches.

Text-books: Kyle's Diseases of the Nose and Throat, Dench's Diseases of the Ear.

OPHTHALMOLOGY.

W. K. BUTLER, M.D,.....*Professor of Ophthalmology*

A course of lectures on this subject is given in the fourth year. The chief object of the course is to direct attention to the elementary principles of the subject. It is not intended to qualify the student as a specialist. This course is supplemented by clinical instruction.

Text-book: May's Diseases of the Eye.

DERMATOLOGY.

H. C. YARROW, M.D.....*Professor of Dermatology*
R. B. CARMICHAEL, M.D. .....*Clinical Professor of Dermatology*

The lectures on this subject are illustrated by diagrams, models, photographic illustrations of disease from life, and also by the exhibition of cases. In connection with the course clinical instruction is given.

Text book: Jackson's Diseases of the Skin.

MENTAL DISEASES.

WILLIAM A. WHITE, M.D.... .....*Professor of Mental Diseases*

A series of lectures and clinics is given upon the subject of

insanity in its varied forms. This course is given in the fourth year.

Text-book: Kraepelin's Clinical Psychiatry.

Collateral reading: Church and Peterson's Mental and Nervous Diseases, Bevan Lewis' Mental Diseases.

MEDICAL JURISPRUDENCE.

W. C. WOODWARD, M.D. ..... *Professor of Medical Jurisprudence*

This course is given in the third year, and is designed to familiarize students with the rights and obligations of physicians, both legal and ethical, and to qualify them to apply the facts of medical science to the solution of problems in law.

Text-book: Reese's Medical Jurisprudence and Toxicology.

PEDIATRICS.

GEORGE N. ACKER, A.M., M.D. . ..... *Professor of Pediatrics*

In the fourth year didactic and clinical lectures are given upon diseases of infants and children and the importance of the proper management of these diseases by diet and hygiene.

Text-book: Holt's Diseases of Infants and Children.

EXAMINATIONS.

Examinations are held at the end of the course in each subject, and a general examination at the end of the graduating year. Students failing in examination in one major subject or not more than two minor subjects will be permitted to be reëxamined at the beginning of the next academic year. Students failing in reëxamination in a major subject must repeat the year and the subjects in which they do not attain a grade of 80 or more. Students failing to appear at the regular examinations will not be examined until the next regular examination, except by special permission of the Faculty, and in this event an extra fee of $5.00 will be charged. Students failing to pass satisfactorily their practical laboratory examinations will be required to repeat the laboratory courses and pay the regular laboratory fees. Students will not be admitted to examination unless they have paid all fees due at the time or present a permit signed by the Assistant Treasurer. The reexaminations for 1905–06 will be held in the Medical Building, September 20, 1905. In order to avail themselves of the privi-

lege of reëxamination students must file their applications with the Dean not later than September 1, 1905.

Examinations are written, oral, and practical so far as the nature of the subjects permit. The time allowed for written examinations is as follows:

Two hours each for Anatomy, Physiology, Chemistry, Materia Medica and Therapeutics, Histology, Pathology, Bacteriology, Practice, Obstetrics, and Surgery; one hour each for Gynecology, Hygiene, Dermatology, Ophthalmology, Pediatrics, Minor Surgery, Orthopedics, Mental Diseases, Medical Jurisprudence, Nervous Diseases, Otology, and Laryngology.

For oral examinations such time is allowed as the examiner deems sufficient to test the attainments of the student. For practical examinations in the laboratories one hour is given to each subject.

In addition to the foregoing examinations students are required: to dissect satisfactorily one lateral half of the cadaver; to report satisfactorily an analysis of a specimen of urine and a clinical examination of a specimen of blood; to examine and report upon six clinical cases in general medicine and two cases in surgery; to perform satisfactorily two major surgical operations upon the cadaver; to work not less than two weeks in the Dispensary Service of the University or other hospitals; to work not less than two weeks in the Clinical Laboratory of the University or of some other hospital approved by the Dean; to take charge of one or more obstetrical cases and to report thereon; to examine and report on one case in either Ophthalmology, Laryngology, Otology, Dermatology, or Orthopedics; to report upon one case in Gynecology.

Examinations are marked upon a scale of 100. A grade of 70 is required to pass an examination.

Every student repeating a year will be required to pay one-half the tuition fee of the academic year. Laboratory fees are required for each year in which laboratory work is done.

Students do not receive their numerical grades, but are notified that they have attained grades A, B, C, D, E, or F, as the case may be. A signifies 96 to 100; B signifies 90 to 95; C signifies 80 to 89; D signifies 70 to 79; E signifies failure; F signifies failed to appear for examination.

REQUIREMENTS FOR DEGREE.

Every candidate for the degree of Doctor of Medicine must be at least twenty-one years of age and of reputable character. He must have complied with the admission and other require-

ments herein set forth. He must file with the Dean on or before May 1 a notice of his intention to appear for graduation, and he must be present at the time specified for examination, and also at Commencement or Convocation. The degree is not conferred in the absence of a candidate except by special consent of the President's Council. Graduates of other accredited colleges must spend one year in residence at this school and must pass satisfactory examinations in all subjects in order to receive a diploma.

To graduate, students must have passed in all subjects.

Candidates who in their work and examinations attain general averages of 80 or more will be presented to the Faculty for consideration with reference to being designated as "having graduated with distinction." If in the opinion of the Faculty such candidates have shown themselves to be possessed of more than ordinary merit, they will have inscribed upon their diplomas beneath their degree the words "with distinction," and the names of such graduates will be distinctively printed at the head of the list of graduates of the year.

Candidates who have completed their courses, but have not passed their final examinations, may take the fall examination upon payment of a fee of $10, and, if successful, receive their diplomas at the Winter Convocation upon the payment of the diploma fee.

A student who has failed of graduation after repeating his final year will not be permitted to maintain his connection with the school.

COURSES IN ARTS AND SCIENCES.

Students taking a full course for the degree of Doctor of Medicine may, if otherwise qualified, be admitted without additional fee, except laboratory fees, to courses in the Department of Arts and Sciences, provided such courses do not exceed in the aggregate six hours a week.

SCHOLARSHIPS.

Applications for scholarships should be filed with the Registrar of the University not later than September 15. Students holding scholarships pay the matriculation, library, laboratory, and graduation fees, and make the deposit to cover breakage.

CORCORAN SCHOLARSHIPS.

In recognition of the liberality of the late W. W. Corcoran, the University has established in this department six free scholarships.

Two of these scholarships are open for competitive examination to the graduates of the several high schools and the manual training school of the District of Columbia. These two scholarships are awarded to the two students whose averages are highest.

Two of the scholarships are open for competitive examination to graduates of any reputable high school or college who shall give satisfactory written evidence of pecuniary inability and certificates of good moral character and industry. These two scholarships are awarded to the two graduates whose averages are highest.

The remaining two scholarships are open for competitive examination to students who, though not graduates of any high school or college, give satisfactory evidence that they are fitted by previous education for the study of medicine, and at the same time give satisfactory written evidence of pecuniary inability and certificates of good moral character and industry. These two scholarships are awarded to the two students whose averages are highest.

In establishing these averages professional aptitude and general qualifications are considered along with scholastic ability.

MEDICAL MISSIONARY SCHOLARSHIPS.

Two Medical Missionary Scholarships will be given to such applicants as are judged by the President of the University best qualified to enter upon the study of medicine for the purpose of becoming medical missionaries. These scholarships are awarded for one year only, but they may be renewed.

PRIZES AND HOSPITAL APPOINTMENTS.

A general examination prize of $50 is annually awarded to the candidate for graduation who attains the highest average grade in all subjects.

Professor H. C. Yarrow gives a prize for the best examination in Dermatology.

Professor Charles W. Richardson gives a prize for the best examination in Laryngology and Otology.

Professor Acker gives a prize for the best examination in Pediatrics.

Professor Butler gives a prize for the best examination in Ophthalmology.

Three interns are annually appointed in the University Hospital. They are appointed from those members of the graduating class who have served as externs. Seven externs are also appointed from graduates and from the fourth-year class. In making these appointments scholastic standing and general efficiency and aptitude are considered. Appointments to similar positions are open to the graduates and undergraduates of this school in the following other hospitals of the city: Garfield Memorial Hospital, Emergency Hospital, Columbia Hospital for Women, Casualty Hospital, Providence Hospital, Washington Asylum Hospital, Children's Hospital, Episcopal Eye, Ear, Throat, and Nose Hospital.

CLINICAL FACILITIES.

The following hospitals are open to the students of this school for clinical study:

University Hospital.—This hospital is a part of the educational equipment of this University, and is intended to be used primarily in instructing the students in clinical medicine and surgery. It has also in connection with it an out-patient or dispensary service in all departments.

Garfield Memorial Hospital.—This institution has 118 charity beds. Clinics are given regularly throughout the session by members of the Faculty connected with the visiting staff of the hospital. There is also an out-patient department, giving good opportunities for experience in the practice of physical diagnosis.

Children's Hospital.—Regular clinical instruction is given in the medical and surgical wards by members of the Faculty on the visiting staff of the hospital. This institution has 100 charity beds. There is also a large out-patient department.

Emergency Hospital and Central Dispensary.—This hospital has 36 charity beds, and has a very large out-patient service. The large emergency service gives exceptional facilities in clinical surgery. Several members of the Faculty are on its visiting and dispensary staffs and give clinical instruction to the students.

Columbia Hospital for Women.—This hospital has 68 charity beds for diseases peculiar to women and 50 charity mater-

nity beds. Members of the Faculty are connected with its service and use its facilities for clinical instruction.

Providence Hospital.—This institution has a large charity service—100 beds for medical and surgical cases and 130 maternity beds.

The Government Hospital for the Insane.—This hospital is maintained by the United States Government. It has 2,500 beds. Clinical instruction in mental diseases is given by the superintendent of the hospital, who is a member of the Faculty of this school.

Episcopal Eye, Ear, Throat, and Nose Hospital.—Excellent opportunities for clinical instruction in ophthalmology, otology, laryngology, and rhinology are offered by this hospital. Members of the Faculty are on its staff.

Lutheran Eye and Ear Dispensary.—This dispensary affords good opportunities for clinical study of diseases of the eye, ear, throat, and nose. Clinical instruction is given by member of the Faculty.

Casualty Hospital.—Opportunities in emergency and dispensary work are afforded by this institution.

LOCATION OF HOSPITALS.

University Hospital, H street between Thirteenth and Fourteenth streets, northwest, and adjacent to the Medical Building. Visiting staff:

Members of the Faculty of the Department of Medicine.

Garfield Memorial Hospital, Florida avenue and Tenth street, northwest. Members of the Faculty on the visiting staff:

Professor Claytor, Clinical Medicine; Professor Cook, Clinical Medicine; Professor Thompson, Clinical Surgery; Professor Staveley, Clinical Gynecology; Professor Carmichael, Clinical Dermatology; Professor Butler, Clinical Ophthalmology; Professor Hagner, Clinical Genito-Urinary Surgery.

Children's Hospital, W street between Twelfth and Thirteenth streets, northwest. Members of the Faculty on the visiting staff:

Professor Thompson, Clinical Surgery; Professor Acker, Clinical Medicine.

Emergency Hospital and Central Dispensary, Fifteenth street and Ohio avenue, northwest. Members of the Faculty on the visiting staff:

Professor Carr, Clinical Surgery; Professor Hagner, Clinical Genito-Urinary Diseases; Dr. Jackson, Clinical Surgery; Dr. Macatee, Clinical Medicine; Professor Carmichael, Clinical Dermatology; Dr. Miller, Clinical Gynecology; Dr. Le Merle, Clinical Nervous Diseases.

Columbia Hospital for Women, Twenty-fifth street and Pennsylvania avenue, northwest. Members of the Faculty on the visiting staff:

Professor Bovée, Clinical Gynecology; Professor Morse, Clinical Obstetrics.

Providence Hospital, Second and D streets, southeast. Member of the Faculty on the visiting staff:

Professor Bovée, Clinical Gynecology.

Episcopal Eye, Ear, Throat, and Nose Hospital, Fifteenth street between L and M streets, northwest. Members of the Faculty on the visiting staff:

Professor Richardson, Clinical Otology and Laryngology; Dr. McKimmie and Dr. Dye, Clinical Otology and Laryngology.

Lutheran Dispensary, Fourteenth and N streets, northwest. Member of the Faculty on the visiting staff:

Professor Butler, Clinical Ophthalmology.

Government Hospital for Insane, Anacostia, D. C. Member of the Faculty on the visiting staff:

Professor White, Mental Diseases.

Casualty Hospital, Massachusetts avenue, northeast. Members of the Faculty on the visiting staff:

Professor Wellington, Clinical Surgery; Dr. Frankland, Clinical Gynecology.

LABORATORIES.

The different laboratories are all modern and equipped with the necessary apparatus for thorough work.

PATHOLOGICAL MUSEUM.

A great many valuable and interesting specimens are contained in the Pathological Museum of this school. Their number is increased by additions from time to time. These specimens are particularly valuable to the students as illustrating the changes produced by disease.

OTHER MUSEUMS.

The Army Medical Museum affords an unrivaled opportunity for studying the conditions met with in military surgery. It contains on exhibition a collection of anatomical and pathological specimens unequaled by any other museum. Other Government museums are the Museum of Hygiene, in connection with the Medical Department of the Navy. The National Museum contains the most complete and best arranged collection of materia medica in the world. The drugs are shown in all their processes of manufacture. The Botanic Gardens, the Smithsonian Institution, the Fish Commission, the Department of Agriculture all afford opportunities for study both in medicine and its collateral sciences.

THE MEDICAL LIBRARY.

The Medical Library is open for study and consultation from 9 a. m. to 10.30 p. m. It contains at present more than 1,200 volumes, and provision is made in the annual library fee charged every student to add to it as published the important new works on medicine. As the library stands at present, it is an excellent working collection for the medical student.

OTHER LIBRARIES.

Washington contains the Library of the Surgeon General's office of the United States Army, the most complete medical library in the world. This library, as all other libraries of the Government, is open to the public between the hours of 9 a. m. and 4.30 p. m. There is also the Library of Congress and the many excellent libraries of the various other Government offices.

FEES AND CONTINGENT EXPENSES.

The following are the fees:

For the first year:

Matriculation fee (payable only on first entry into the University)	$5
Library fee	2
Anatomical Laboratory fee	20
Chemical Laboratory fee	5
Tuition fee	110
Total fee	$142

For the second year:	
Library fee	$2
Chemical Laboratory fee	5
Tuition fee	110
Total fee	$117
For the third year:	
Library fee	$2
Tuition fee	110
Total fee	$112
For the fourth year:	
Library fee	$2
Tuition fee	110
Graduation fee	10
Total fee	$122

The fees for the OPTIONAL FIVE-YEAR COURSE are the same for the first, second, and third years as for the regular four-year course.

For the fourth year:	
Library fee	$2
Tuition fee	110
Total fee	$112
For the fifth year:	
Library fee	$2
Tuition fee	55
Graduation fee	10
Total fee	$67

In addition to the above fees an annual deposit of $10 is required of every student. This deposit is to cover loss, breakage, or damage to the property of the school. If at any time the charges against this deposit reduce the amount to the credit of the student to $2.50, the student will be required to restore the deposit to the original sum. This deposit, less the charges made against it, is refunded to the student at the close of the academic year or upon withdrawal. No change will be made in the fees fixed at registration except in case of withdrawal, and then only upon notice in due form and from the end of

the current quarter session in which such withdrawal shall be approved. Applications for the granting of a withdrawal should be made on the prescribed form to be obtained from the Registrar.

Students are urged to purchase their own microscopes, but those who do not care to do so may rent them from the University at the following rentals:

Microscope for Histological Laboratory use . . . $3
Microscope for Bacteriological, Pathological, and Clinical Microscopy Laboratory use $5

PAYMENT OF FEES.

All fees are to be paid to the Assistant Treasurer. Tuition fees are payable quarterly, in advance. Matriculation, library and laboratory fees are payable in full, in advance.

BOARD AND ROOMS.

The price of table board and rooms varies according to locality. Good accommodations may be secured at some distance from the University buildings for two hundred dollars for the session of thirty-three weeks. In the neighborhood adjacent to the University, by reason of its nearness to the heart of the best business section of the city, prices range from two hundred and fifty to three hundred and fifty dollars for the session of thirty-three weeks. Students frequently form clubs for the purpose of obtaining a reduction in the cost of living. A register of approved boarding-houses is kept by the Assistant Treasurer, who will gladly furnish information in relation thereto, or in connection with any other matters conducive to the comfort of students seeking a residence in the city of Washington.

For catalogues, application blanks, and further information, address

OTIS D. SWETT, *Registrar*,
The George Washington University,
Washington, D. C.

Department of Medicine.

II. FACULTY OF DENTISTRY.

CHARLES W. NEEDHAM, LL.D....PRESIDENT OF THE UNIVERSITY
J. HALL LEWIS, D.D.S.....Dean and Professor of Dental Prosthetics
HENRY C. THOMPSON, D.D.S.....Professor of Operative Dentistry
D. KERFOOT SHUTE, A.B., M.D..... ..Professor of Anatomy
WILLIAM P. CARR, M.D.....Professor of Physiology
CHARLES E. MUNROE, Ph.D.....Professor of Chemistry
E. G. SEIFERT, M.D.....Assistant Professor of Chemistry
THOMAS A. CLAYTOR, M.D., Professor of Materia Medica and Therapeutics
JONATHAN R. HAGAN, D.D.S..... .. ....Professor of Oral Surgery
W. F. R. PHILLIPS, M.D.....Assistant Professor of Practical Anatomy
JOHN B. NICHOLS, M.D.....Professor of Histology
JAMES CARROLL, M.D .....Professor of Bacteriology and Pathology
J. ROLAND WALTON, D.D.S.....Professor of Prosthetic Technics
WILLIAM H. TRAIL, D.D.S.....Assistant Professor of Meteria Medica
J. H. P. BENSON, D.D.S. .....Professor of Operative Technics
L. H. TAYLOR, M.D.....Assistant Professor of Physiology
OTIS D. SWETT, B.S., LL.M.....Secretary

GENERAL STATEMENT.

The first course of lectures in the Dental School began November, 1887, under the title of "The Columbian University Dental Department." The course then extended over two years of five months each. Two years later the course was extended to seven months; but, this additional time being found inadequate to keep pace with the ever increasing demand for higher dental education, the course was gradually increased, until now it extends over three years of eight months each.

The academic year begins on the last Wednesday in September and ends on the first Wednesday in June. The next session will begin September 27, 1905, and end June 6, 1906. Students should register promptly at the office of the Registrar at the beginning of the session, and no student can be received and credited with a full term after ten days from the first lecture. Final examinations are held at the conclusion of the instruction in each subject. The degrees are conferred at Commencement,

the first Wednesday in June, and at the Winter Convocation, February 22. For any further information application may be made to the Dean of the Dental Department, Washington, D. C., or the Registrar of The George Washington University.

ADMISSION.

Candidates for matriculation must show that they are fitted by previous education to study medicine. For this purpose they must present a satisfactory certificate of their attainments from an approved school or college, or they must pass an examination.

Beginning with the session of 1909–10, all candidates for matriculation will be required to present evidence of such proficiency in Theoretical and Inorganic Chemistry as will enable them to pursue the courses in Organic and Physiological Chemistry given in the Department of Medicine. Candidates unable to present such evidence must submit to an examination.

Candidates are admitted without examination:

(1) Upon presenting a diploma or certificate of a reputable college conferring on them the degree of A.B. or B.S., or an equivalent degree in the arts and sciences.

(2) Upon presenting a diploma or certificate of graduation from a high school, academy, or preparatory school approved by the University as maintaining an adequate standard.

(3) Upon presenting a certificate of admission to the freshman class of a reputable college.

(4) Upon presenting a medical student's certificate issued by a State board.

(5) Upon presenting a certificate of admission to another medical school approved by the University as maintaining an adequate standard.

Candidates unable to comply with the foregoing requirements are admitted upon passing an examination based upon the general requirement for admission to the Freshman Class of the Department of Arts and Sciences of the University, which is a four-year high-school course, or its equivalent. This examination comprises subjects selected from the annexed list equal to 15 units. For admission to the regular course in Dentistry eight (8) of the 15 units are required in the following subjects:

	Units.
English	3
Mathematics	3
Physics	1
Latin	1
Total	8

The other 7 units may be selected from the other subjects. A unit is considered the equivalent of one year's high-school work in a subject.

LIST OF SUBJECTS.

	Units.
English:	
(*a*) Grammar	1
(*b*) Rhetoric and Composition	1
(*c*) Literature—a knowledge of the form, subject-matter, and literary history of prescribed works is required	1

The following are the works prescribed for 1905-06: Burke's Speech on Conciliation, Macaulay's Essay on Addison, Macaulay's Essay on Milton, Milton's L'Allegro, Il Penseroso, Comus, and Lycidas; Shakespeare's Macbeth. Equivalent reading may be offered.

	Units.
Latin:	
(*a*) Elementary Grammar	1
(*b*) Cæsar's Commentaries, Books I–IV	1
Greek:	
(*a*) Elementary Grammar	1
(*b*) Xenophon or Homer	1
Modern Languages:	
(*a*) French, translation of easy prose	1
(*b*) German, translation of easy prose	1
History:	
United States	1
English	1
Roman	1
Greek	1
General	1
Mathematics:	
(*a*) Algebra through quadratics	1½
(*b*) Plane Geometry	1
(*c*) Plane Trigonometry	½
Sciences:	
Physics	1
Chemistry	1
Astronomy	½
Biology	1
Geology	½
Botany	1
Physical Geography	½
Physiology	½

For the benefit of the candidate it may be stated that the scope of the different subjects is that comprised in standard high-school text-books.

Candidates may offer other subjects than those stated in the foregoing list of subjects, and if they are acceptable examinations will be arranged. A candidate may offer certificates of an approved school for work done in any of the foregoing subjects, and will be credited with the units represented by such work. A candidate failing to pass in two of the subjects of his examination may be admitted to the first year upon the condition that he make up the deficiency before entering the second-year class. The examinations are conducted by examiners appointed by the Superintendent of Schools of the District of Columbia.

The examinations for admission will be held in June and September, at the Dental Department. An applicant deficient in either Latin or Physics, or both, may be admitted to the First-year Class conditioned in those subjects, but such conditions must be made up during the first year.

COURSE OF INSTRUCTION.

The course of instruction extends through three years of eight months each. The subjects taught during the course are divided as follows:

First year.	Second year.	Third year.
Anatomy.	Operative Dentistry.	Operative Dentistry.
Physiology.	Prosthetic Dentistry.	Prosthetic Dentistry.
Chemistry.	Bacteriology.	Oral Surgery.
Histology.	Pathology.	Orthodontia Technics.
Operative Technics.	Materia Medica.	Operative Technics.
Prosthetic Technics.	Therapeutics.	Prosthetic Technics.
	Operative Technics.	Infirmary Practice.
	Prosthetic Technics.	
	Infirmary Practice.	

These studies are further described in the following pages.

PROSTHETIC DENTISTRY AND METALLURGY.

J. Hall Lewis, D.D.S.....*Professor*

In this subject the principles involved in the construction of artificial substitutes are exhaustively considered and the lectures supplemented by practical demonstrations of the subjects mentioned.

In addition to the more commonly used vegetable bases for artificial teeth, the use of gold, silver, and platinum is thoroughly taught, and bridge work and the construction of appliances for correcting oral irregularities, etc., are carefully considered.

The modes of preparation, properties, etc., of the metals and alloys of particular interest to the dentist receive special attention.

The instruction is thoroughly practical, with the purpose of preparing the student for the actual every-day practice of prosthetic dentistry.

OPERATIVE DENTISTRY, DENTAL ANATOMY, AND PATHOLOGY.

Henry L. Thompson, D.D S.....*Professor*

This course embraces lectures on the special anatomy and physiology of the teeth. The origin, growth, and eruption of the teeth receive minute attention, and are illustrated as their importance demands.

The methods of treating, filling, and extracting teeth receive attention in the lecture-room, and are demonstrated clinically by proficient operators. Extended consideration is given to Dental Pathology and Therapeutics.

CHEMISTRY.

Charles E. Munroe, Ph.D.....*Professor*
E. G. Seibert, M.D.....*Assistant Professor*
Otis D. Swett, B.S.....*Instructor*
Elmer S. Newton, B.A.....*Assistant*
Arthur N. Tasker, B.A.....*Assistant*

The instruction in this subject embraces:

A short discussion of the principles of Physics in their relation to Chemistry, the principles of chemical philosophy, and the laws of chemical combination.

A study of the elements, metallic and non-metallic; the preparation, properties, and reaction of their different compounds and their application in dentistry.

Organic Chemistry, with special attention to those organic compounds that are of practical use.

Laboratory instruction in the determination of acids and bases, analyses of alloys, etc.

PHYSIOLOGY.

W. P. Carr, M.D.....*Professor*
L. H. Taylor, M.D.....*Assistant Professor*

The subject is fully covered the first year by a course of lectures, and these lectures are so illustrated by modern diagrams, models, and experiments as to make them clear in every detail. Emphasis is given to principles that have a known practical value.

MATERIA MEDICA AND THERAPEUTICS.

Thomas A. Claytor, M.D.....*Professor*
Wm. H. Trail, D.D.S.....*Assistant Professor*

Instruction in this subject extends through the first two years, and embraces:

The study of crude drugs and their preparations and the art of prescribing.

The physiological action of drugs in the human system.

The practical application of drugs and other therapeutical agencies to the prevention and cure of diseases and the relief of suffering, together with their antidotal relations to poisons.

The subject is taught by means of lectures, recitations, and blackboard illustrations, and is made practical to as great a degree as is compatible with a sufficiently thorough understanding of its principles.

In connection with this chair is a pharmaceutical laboratory, well equipped with modern appliances, in which are taught the making of typical preparations of the Pharmacopœia, prescription writing, and the compounding of prescriptions.

ANATOMY.

D. Kerfoot Shute, A.B., M.D.....*Professor*
W. F. R. Phillips, M.D.....*Assistant Professor*
Geo. B. Heinecke, M.D.....*Assistant Demonstrator*

VIRGIL B. JACKSON, M.D. ..... *Assistant Demonstrator*
E. E. RICHARDSON, M.D., M.S. ..... *Assistant Demonstrator*
W. A. FRANKLAND, M.D. ..... *Assistant Demonstrator*
S. H. GREENE, JR., M.D. ..... *Instructor*
J. L. RIGGLES, M.D. ..... *Instructor*
R. M. LITTLE, M.D. ..... *Assistant Demonstrator*
GEO. M. RUFFIN, M.D. ..... *Instructor*
H. W. LAWSON, M.D. ..... *Assistant Demonstrator*
JOS. D. RODGERS, M.D. ..... *Assistant Demonstrator*

The instruction in Anatomy is given in a graded course of lectures, recitations from prescribed text-books, and especially by practical work in the dissection of the cadaver.

The lectures are illustrated by the use of dry and wet dissections of the cadaver, by models, diagrams, charts, and sciopticon views.

Practical work in osteology and in dissection of the head are of fundamental importance. For the study of these subjects the class is divided into sections in order to make the instruction as practical and immediate as possible.

The bones of the skeleton are placed in each student's hands, and he is instructed and quizzed upon all their important features.

ORAL SURGERY.

J. R. HAGAN, D.D.S. ..... *Professor*

A full course of lectures upon this subject is given, and arrangements have been made for clinical demonstrations in the Infirmary.

HISTOLOGY.

JOHN B. NICHOLS, M.D. ..... *Professor*
D. WEBSTER PRENTISS, M.D. ..... *Assistant Professor*
HENRY M. JEWETT, M.D. ..... *Assistant Instructor*
C. L. DAVIS, M.D. ..... *Assistant Instructor*

The course in Histology consists in a systematic presentation of the subject of the minute anatomy of the various parts of the body, especial attention being devoted to the histology of the teeth and neighboring structures. The subject is presented partly by systematic lectures, and more especially by the practical study by the individual students of actual specimens under the microscope. The methods of preparation of microscopical specimens are presented and practiced in the laboratory. The projection microscope, affording valuable aid in illustrating and presenting the subject, is constantly used.

BACTERIOLOGY.

JAMES CARROLL, M.D. ..... *Professor*
HARRY H. DONNALLY, M.D. ..... *Assistant Instructor*

The course is begun with a consideration of the principles involved in the process of sterilization by dry and moist heat, the relative value and mode of application of each, and an explanation of the construction of the apparatus employed for the purpose. The use and construction of the thermostat is taken up at the same time and the student taught how he can dispense with these costly appliances in emergencies.

The composition and modes of preparation of the various nutritive media are next considered, working formulas given, and the students required to prepare them at least once in the laboratory. This is followed by a discussion of bacteria as a class, their position in the biological world, their classification, distribution, and the general and special characters that belong to them.

After this preparatory training the various methods in use for the isolation and study of bacteria are taught by practical demonstration and practiced by the students, after which the most important pyrogenic organisms are studied in detail, giving special attention to those found in the nasal and oral cavities.

The aim of the course is chiefly to afford the students an opportunity to become practically familiar with bacteriological working methods, and to enable them to isolate and identify the bacteria present in suppurative processes, as well as to comprehend intelligently the references to micro-organisms in the current professional literature of the day.

THE TECHNIC LABORATORY INSTRUCTION.

The Technic Laboratories are thoroughly equipped for their particular work, and the instruction is given by Professors J. Roland Walton, D.D.S., and J. H. P. Benson, D.D.S., assisted by Cæsare Louis Constantini, D.D.S.; Horatio D. Dawson, D.D.S.; A. L. Miller, D.D.S.; H. P. Colby, D.D.S.; Allen S. Wolfe, D.D.S.; Thomas J. Rice, D.D.S.; Richard Gill Richardson, D.D.S.

THE DENTAL INFIRMARY.

CHARLES BASSETT, D.D.S. ..... *Demonstrator in Charge*
R. E. L. HACKNEY, D D.S. ..... *Demonstrator*
JOHN R. DE FARGES, D.D.S. ..... *Demonstrator*
CHARLES L. BOVÉE, D.D.S. ..... *Demonstrator*

The Infirmary is open every week day for nine continuous months (being closed during the months of July, August, and September), during which time an abundance of clinical material is readily available. In fact, as many patients present themselves as can possibly be attended to by the students. It is under the immediate supervision of the Demonstrator in charge, who is present from 1 until 6 o'clock each week day.

TEXT-BOOKS AND WORKS OF REFERENCE.

(The works first named and in *italics* are preferred.)

Anatomy.—*Cunningham's Text-Book of Anatomy; Cunningham's Manual of Practical Anatomy;* Dental Anatomy, Black's.

Physiology.—Kirke's Handbook of Physiology.

Chemistry.—*Simon's* Chemistry.

Materia Medica.—*H. C. Wood's Therapeutics;* Hare's Practical Therapeutics; A. A. Stevens' Modern Materia Medica and Therapeutics; Culbreth's Materia Medica and Pharmacy; National Dispensatory.

Prosthetic Dentistry.—*The American Text-Book of Prosthetic Dentistry;* Essig's Dental Metallurgy.

Operative Dentistry.—*Harris' Principles of Practice;* Tome's Dental Anatomy and Surgery; Taft's Operative Dentistry; American System of Dentistry—Litch.

Oral Surgery.—Marshall's Oral Surgery; Grant's Oral Surgery.

Histology.—Nichols, Böhm and Davidoff.

GRADUATION.

Candidates for graduation must have attended three full courses of lectures, each of eight months duration, and three courses of Clinical Instruction in this Department, during the regular winter term and in separate years. Students are examined at the end of the regular course upon all subjects taught them during that course. They may go up for examination only in the spring and upon the dates regularly selected for that purpose. Should the student fail in his examination in the spring, he may be reëxamined in the fall. All fees must be paid and Infirmary requirements complied with before the student may present himself for examination.

Students must enter before, or within ten days after, the opening lecture of the regular winter course. They may register at any time during the nine months Infirmary course, and thus begin Infirmary practice at once upon payment of twenty-five dollars, which amount will be deducted from their tuition fees for the succeeding regular term.

The candidate for graduation must be examined upon all subjects taught in this Department, and before the examination

he must perform operations upon the natural organs in the Infirmary, and present the Museum a well-constructed specimen of dental mechanism made by himself in the Dental Laboratory of the University.

In addition to the above requirements, the moral character and habits of the candidate, his industry, and diligent attendance will be taken into consideration. Notable negligence, immorality, or habitual absence from the lectures will preclude the candidate from attaining his degree, even though he may have acquired sufficient technical knowledge to pass a creditable examination. This reservation on the part of the Faculty of the right to make good moral character a prerequisite for graduation must not be overlooked.

The student also, during and between the sessions, must comply with the State laws regulating the practice of Dentistry, and act in accordance with the recognized code of ethics of the dental profession.

The degrees are conferred by The George Washington University, incorporated by Act of Congress of the United States.

PRIZES.

FACULTY PRIZE.—A prize will be given by the Faculty to the graduate passing the best examination in all branches and having the best Infirmary record.

COURSES IN ARTS AND SCIENCES.

Students taking a full course for a degree may be admitted without additional fee, except laboratory fees, to courses for which they are qualified, in the Department of Arts and Sciences, the aggregate of such courses not to exceed six hours per week.

LOCATION.

The Dental Building is No. 1325 H Street, N. W. It is within half a square of all lines of street cars going to every part of the city.

The Dean may be seen personally at 1121 Vermont avenue on any week day from 3 to 4 p. m., and also at the Dental Building, 1325 H Street, N. W., on Monday, Wednesday, and Friday of each week at 4 p. m.

FEES AND CONTINGENT EXPENSES.

The following are the fees:

For the first year:	
Matriculation fee (payable only on first entry into the University)	$5
Library fee	2
Anatomical Laboratory fee	10
Chemical Laboratory fee	5
Tuition fee	110
Total fee	$132
For the second year:	
Library fee	$2
Tuition fee	110
Total fee	$112
For the third year:	
Library fee	$2
Tuition fee	110
Graduation fee	10
Total fee	$122

In addition to the above fees an annual deposit of $10 is required of every student. This deposit is to cover loss, breakage, or damage to the property of the school. If at any time the charges against this deposit reduce the amount to the credit of the student to $2.50, the student will be required to restore the deposit to the original sum. This deposit, less the charges made against it, is refunded to the student at the close of the academic year or upon withdrawal. No change will be made in the fees fixed at registration except in case of withdrawal, and then only upon notice in due form and from the end of the current quarter session in which such withdrawal shall be approved. Applications for the granting of a withdrawal should be made on the prescribed form to be obtained from the Registrar.

Students are urged to purchase their own microscopes, but those who do not care to do so may rent them from the University at the following rentals:

Microscope for Histological Laboratory use	$3
Microscope for Bacteriological, Pathological, and Clinical Microscopy Laboratory use	$5

PAYMENT OF FEES.

All fees are to be paid to the Assistant Treasurer. Tuition fees are payable quarterly, in advance. Matriculation, library, and laboratory fees are payable in full, in advance.

BOARD AND ROOMS.

The price of table board and rooms varies according to locality. Good accommodations may be secured at some distance from the University buildings for two hundred dollars for the session of thirty-three weeks. In the neighborhood adjacent to the University, by reason of its nearness to the heart of the best business section of the city, prices range from two hundred and fifty to three hundred and fifty dollars for the session of thirty-three weeks. Students frequently form clubs for the purpose of obtaining a reduction in the cost of living. A register of approved boarding-houses is kept by the Assistant Treasurer, who will gladly furnish information in relation thereto, or in connection with any other matters conducive to the comfort of students seeking a residence in the city of Washington.

For catalogues, application blanks and further information address

OTIS D. SWETT, *Registrar*,
The George Washington University,
Washington, D. C.

Department of Law and Jurisprudence.

FACULTY.

CHARLES W. NEEDHAM, LL.D...PRESIDENT OF THE UNIVERSITY
HENRY ST. GEORGE TUCKER, LL.D.....Dean of the Faculty and Professor of Law
JOHN M. HARLAN, LL.D. .....Professor of Law
DAVID J. BREWER, LL.D.....Professor of Law
WILLIAM A. MAURY, LL.D.....Professor of Law
WILLIAM G. JOHNSON, LL.M.....Professor of Law
MELVILLE CHURCH, LL.M.....Professor of the Law of Patents
STANTON J. PEELLE, LL.D.....Professor of Law
WALTER C. CLEPHANE, LL.M. .....Professor of Law
EDWIN C. BRANDENBURG, LL.M.....Professor of Law
ARTHUR PETER, LL.M.....Professor of Law
HENRY P. BLAIR, LL.M.....Professor of Law
JOHN PAUL EARNEST, A.M., LL.M.....Professor of Law
WILLIAM REYNOLDS VANCE, A.M., Ph.D., LL.B.....Professor of Law
HANNIS TAYLOR, LL.D.....Professor of Law
GEORGE W. SCOTT, LL.B., Ph.D.....Professor of Law
ERNEST G. LORENZEN, Ph.B., LL.B., J.U.D.....Professor of Law
CARL HAU, M.A., LL.B.....Assistant Professor of Law
FREDERICK I. ALLEN.....Lecturer on Substantive Patent Law
ROBERT M. HUGHES, A.M., LL.B.....Lecturer on Admiralty Law and Procedure
N. W. HOYLES, K.C.....Lecturer on Canadian Law
OTIS D. SWETT, B.S., LL.M. .....Secretary of the Faculty

GENERAL STATEMENT.

This Department, established in 1865, is the oldest school of law in the city of Washington. Its course of instruction for the degree of Bachelor of Laws, originally requiring but two years, was gradually expanded, until, in 1898, in accordance with the recommendation of the Association of American Law Schools, it was increased to three years. The Faculty has also shown a gradual increase in numbers commensurate with the expansion of the course and the growing number of students in attendance. In June, 1903, the Board of Trustees adopted the policy of putting the fundamental subjects of sub-

stantive law in charge of permanent professors, devoting their whole time and energy to the work of the Department. In pursuance of this policy, there have been added to the Faculty five instructors devoting their whole time to the development of the subjects entrusted to them, under the direction of the Dean of the Department, Henry St. George Tucker, LL.D.

In October, 1903, instruction in the forenoon was offered to students in the first-year class. Beginning in October, 1905, instruction during the morning hours will be offered to the students of all three classes in the undergraduate course.

In 1877 a year of graduate work, leading to the degree of Master of Laws, was added to the course of instruction offered. A special course in Patent Law was added in 1895.

In June, 1898, an ordinance was adopted by the Board of Trustees formally establishing as a separate department of the University the Department of Jurisprudence and Diplomacy. This Department was opened with appropriate ceremonies and in the presence of a distinguished audience on November 15, 1898.

In 1904, by the authority of the Board of Trustres, a new adjustment of graduate work in the University was made, resulting in the establishment of the Departments of Law and Jurisprudence, and of Politics and Diplomacy, the former embracing the undergraduate course in municipal law and graduate courses in the broader fields of general law, and the latter certain graduate courses in the realm of political science, special attention being given to diplomacy.

LOCATION.

All classes in both the Department of Law and Jurisprudence and that of Politics and Diplomacy are held in Law Lecture Hall, situated on H street, adjoining the main University building, at the corner of Fifteenth street. This hall, dedicated on Jannary 3, 1899, was specially designed for the work of these Departments. It is commodious and well equipped with lecture-rooms, Moot Court rooms and offices, and contains a large library, with a conference-room adjoining.

ACADEMIC YEAR.

The academic year extends through eight full months, beginning on the last Wednesday in September and ending on the first Wednesday in June, and is divided into two half-years, the second half-year beginning on the first day of February. Since

all courses given during the first half-year are completed before the beginning of the second half-year, it is possible for a student to enter on the 1st of February of any year and be graduated three years from that date, receiving his degree at the Winter Convocation, held on February 22d of each year.

ADMISSION.

A. To the Undergraduate Course.

Applicants for admission to the undergraduate course as candidates for a degree must be at least eighteen years of age and must have had educational training equivalent to a course in an approved high school. The educational requirement may be satisfied by presentation of certificates or by an examination before the Dean. All applications for admission should be addressed to the Registrar of the University, who will furnish proper blanks upon request.

B. To the Graduate Course.

1. *Master of Laws :*

Candidates for the degree of Master of Laws must be at least twenty-one years of age and hold the degree of Bachelor of Laws from an institution of approved standing.

2. *Master of Patent Law :*

Only those students who are graduates of an approved law school or members of the bar in good standing will be admitted as candidates for the degree of Master of Patent Law.

3. *Doctor of Jurisprudence :*

No student will be admitted as a candidate for the degree of Doctor of Jurisprudence unless he shall hold a baccalaureate degree conferred by some institution of approved standing after the completion of a liberal course of undergraduate academic study, and possess a reading knowledge of Latin, French, and German. The right is reserved to the President's Council to decide in all cases whether the applicant has given sufficient evidence that his antecedent training fulfils these requirements. In addition, the candidate must hold the degree of Bachelor of Laws from this University or from some other institution requiring equivalent work as a prerequisite to that degree.

C. Special Students.

Persons who for any reason do not qualify as candidates for a degree may, on the recommendation of the Faculty and with

the assent of the professors whose courses they elect to take, be admitted as special students. Special students may subsequently be admitted to regular standing in any of the classes upon satisfying the requirements of admission thereto.

ADVANCED STANDING.

Students may be admitted to advanced standing in the second or third year classes upon satisfying the requirements for the work of the preceding year or years. These requirements may be met by presenting certificates from other law schools of accredited standing showing that the student has successfully completed equivalent courses, or by passing the regular examinations set for that purpose at the beginning of the term, after showing that he has pursued a course of study in the subjects upon which he is examined covering at least as many hours as are required for such subjects in this University.

Attorneys in good and regular standing who have been admitted to practice in any State requiring an examination for admission to the bar may be admitted to advanced standing in the second or third year class, at the discretion of the Dean.

All examinations that may be required of applicants for admission or for advanced standing are held during the first week of October and the last week of January of each academic year.

HOURS FOR LECTURES AND CONFERENCES.

Lectures on all required courses in the Department of Law and Jurisprudence are delivered between the hours of 4.50 and 6.30 in the afternoon. Additional conferences on the fundamental subjects embraced within the undergraduate courses are given between 9 and 12 o'clock in the forenoon.

METHOD OF INSTRUCTION.

Instruction in the undergraduate courses is based upon the reading of selected cases in connection with the study of approved text-books. Conferences are regularly held, in which the professor in charge of each subject tests the accuracy and extent of the student's reading upon the topic assigned and, by explanations given and the statement of other illustrative cases, endeavors to lead the student to a clear understanding of the fundamental legal principles that may be involved. In these conferences every effort is made to afford the student scientific training in accurate methods of study and of reason-

ing along legal lines. Topical lectures are delivered for the purpose of elucidating the more obscure and difficult questions that may have arisen, and also to call to the attention of the student recent developments or peculiar applications of the principles under discussion as shown in late decisions. Students are also required to submit written briefs upon doubtful points of law, to draw up contracts, conveyances, and other papers when the nature of the subject in hand is such as to make exercises of this kind useful in giving accurate instruction.

All subjects involving the adjective law are in charge of professors who are also engaged in active practice. The general principles of these subjects, taught in the same manner as indicated above, are developed by practice before the Moot Courts.

MORNING CONFERENCES.

The work done in the morning conferences, which is collateral to that of the current courses in the afternoon, consists, first, of a more extensive and critical examination of the authorities as found both in decided cases and in text-books, and, secondly, of careful training in determining and formulating the exact principles of law laid down by the cases selected for examination and in correctly applying legal principles to hypothetical cases stated by the instructor. Cases involving legal problems are also assigned to be reported upon by the students after careful examination of the authorities.

COURSES OF INSTRUCTION.

A. Leading to the Degree of Bachelor of Laws.

The course of instruction leading to the degree of Bachelor of Laws extends through a period of three years. It is intended to give the student such sound training in the fundamental subjects of English and American law as will fit him for the practice of the legal profession in any of the States or Territories of the American Union. Twelve hours of work each week is required of the first and second year classes and ten hours each week of the third-year class.

Attendance upon the morning conferences, as scheduled below, is not required as a condition precedent to graduation, but the work done in connection with these conferences is considered to be of the highest importance in the development of the courses offered, and students are urgently advised to attend them. Students registered as participants in these conferences will be required to do the work assigned, and will receive credit for the work done.

FIRST YEAR.

First Half-year.

Contracts. Six hours. Professor VANCE.

Criminal Law. Four hours. Professor EARNEST.

Torts. Lectures and conferences. Four hours. Professor HARLAN and Professor BLAIR.

Domestic Relations. Lectures and conferences. One hour. Professor HARLAN and Professor BLAIR.

Personal Property. Lectures and conferences. Two hours. Professor HARLAN and Professor BLAIR.

Second Half-year.

Special Topics in Contract. Four hours. Professor VANCE.

Criminal Procedure. Two hours. Professor EARNEST.

Commercial Paper. Four hours. Professor LORENZEN.

Constitutional Law. Lectures. Two hours. Professor HARLAN.

Sales. Three hours. Professor BLAIR.

Carriers. Two hours. Professor VANCE.

SECOND YEAR.

First Half-year.

Constitutional Law. Cases. Two hours. Professor TUCKER.

Common Law Pleading and Practice. Three hours. Professor JOHNSON.

Private Corporations. Six hours. Professor LORENZEN.

Agency. Two hours. Professor PEELLE.

Insurance. Two hours. Professor MAURY and Professor VANCE.

Second Half-year.

Evidence. Four hours. Professor PETER.

Real Property. Six hours. Professor VANCE.

Equity. Two hours. Professor TUCKER.

Partnership. One hour. Professor PEELLE.

Equity Pleading and Practice. One hour. Professor CLEPHANE.

THIRD YEAR.

First Half-year.

Real Property. Six hours. Professor VANCE.

Equity. Two hours. Professor TUCKER.

Third-year Moot Courts. Sessions, six hours. Required attendance, two hours. Professors CLEPHANE, EARNEST, and PETER.

Second Half-year.

Conflict of Laws. Three hours. Professor LORENZEN.

Trusts and Trustees. Two hours. Professor TUCKER.

Federal Procedure. One hour. Professor MAURY.

Organization and Management of Corporations. One hour. Professor CLEPHANE.

Public Corporations. Two hours. Professor LORENZEN.

Moot Courts. Session, six hours. Required attendance, two hours. Professors CLEPHANE, EARNEST, and PETER.

Third Year Electives.

Third-year students must elect from the following courses such as, together with the required courses stated above, will amount to the required minimum of ten hours a week.

Wills and Administration. One hour, one half-year. Professor PETER.

Bankruptcy and Insolvency. One hour, one half-year. Professor BRANDENBURG.

Admiralty Law and Procedure. One hour, one half-year. Mr. HUGHES.

Patent Law. One hour, one half-year. Mr. ALLEN.

International Law. One hour, one year. Professor BREWER.

Comparative Constitutional Law. Two hours, one year. Professor TUCKER.

Administrative Law. Two hours, one half-year. Professor SCOTT.

Introduction to Roman Law. Two hours, one half-year. Asst. Professor HAU.

History of English Law. Two hours, one half-year. Professor TAYLOR.

Government Control of Railroads. Two hours, one half-year. Professor NEEDHAM.

Fourth-year Moot Courts. Two hours, one year. Professors CLEPHANE, EARNEST, and PETER.

Advanced Procedure. Two hours, one half-year. Professor CLEPHANE.

Canadian Law. One hour, one half-year. Mr. HOYLES.

SCHEDULE OF LECTURES IN UNDERGRADUATE COURSES.

FIRST YEAR.

First Half-Year.					Second Half-Year.		
Day.	Hour.	Professor.	Subject.	Hall.	Professor.	Subject.	Hall.
Mon.	4.50	Vance.	Contracts.	University.	Vance.	Contracts.	University.
	5.40	Vance.	Contracts.	University.	Vance.	Contracts.	University.
Tues.	4.50	Earnest.	Criminal Law.	University.	Earnest.	Criminal Procedure.	University.
	5.40	Earnest.	Criminal Law.	University.	Lorenzen.	Commercial Paper.	University.
Wed.	4.50	Blair.	Torts.	University.	Vance.	Contracts.	University.
	5.40	Harlan.	Torts.	University.	Harlan.	Constitutional Law.	University.
Thurs.	4.50	Vance.	Contracts.	University.	Blair.	Sales.	University.
	5.40	Vance.	Contracts.	University.	Blair.	Sales.	University.
Fri.	4.50	Blair.	Domestic Relations and Personal Property.	University.	Vance.	Carriers.	University.
	5.40	Harlan.	Domestic Relations and Personal Property.	University.	Harlan.	Constitutional Law.	University.
Sat.	4.50	Blair.	Torts.	University.	Lorenzen.	Commercial Paper.	University.
	5.40	Earnest.	Criminal Law.	University.	Lorenzen.	Commercial Paper.	University.

SCHEDULE OF LECTURES IN UNDERGRADUATE COURSES.

SECOND YEAR.

First Half-Year.					Second Half-Year.		
Day.	Hour.	Professor.	Subject.	Hall.	Professor.	Subject.	Hall.
Mon.	4.50	Lorenzen.	Private Corporations.	Jurisprudence.	Peter.	Evidence.	Jurisprudence.
	5.40	Lorenzen.	Private Corporations.	Jurisprudence.	Peter.	Evidence.	Jurisprudence.
Tues.	4.50	Tucker.	Constitutional Law.	Jurisprudence.	Vance.	Real Property.	Jurisprudence.
	5.40	Tucker.	Constitutional Law.	Jurisprudence.	Vance.	Real Property.	Jurisprudence.
Wed.	4.50	Peelle.	Agency.	Jurisprudence.	Peelle.	Partnership.	Jurisprudence.
	5.40	Johnson.	Common-law Pleading and Practice.	Jurisprudence.	Tucker.	Equity.	Jurisprudence.
Thurs.	4.50	Lorenzen.	Private Corporations.	Jurisprudence.	Vance.	Real Property.	Jurisprudence.
	5.40	Lorenzen.	Private Corporations.	Jurisprudence.	Vance.	Real Property.	Jurisprudence.
Fri.	4.50	Johnson.	Common-law Pleading and Practice.	Jurisprudence.	Peter.	Evidence.	Jurisprudence.
	5.40	Johnson.	Common-law Pleading and Practice.	Jurisprudence.	Peter.	Evidence.	Jurisprudence.
Sat.	4.50	Peelle.	Agency.	Jurisprudence.	Tucker.	Equity.	Jurisprudence.
	5.40	Maury.	Insurance.	Jurisprudence.	Clephane.	Equity Pleading and Practice.	Jurisprudence.

SCHEDULE OF LECTURES IN UNDERGRADUATE COURSES.

THIRD YEAR.

First Half-Year.					Second Half-Year.		
Day.	Hour.	Professor.	Subject.	Hall.	Professor.	Subject.	Hall.
Mon.	4.50		Any Third Year Elective.		Lorenzen.	Conflict of Laws.	A.
	5.40		Any Third Year Elective.		Lorenzen.	Conflict of Laws.	A.
Tues.	4.50	Vance.	Real Property.	A.	Tucker.	Trusts and Trustees.	A.
	5.40	Vance.	Real Property.	A.	Clephane.	Organization of Corporations.	A.
Wed.	4.50	Clephane, Peter, and Earnest.	Moot Court.	Law, Equity, and C.	Clephane, Peter, and Earnest.	Moot Court.	Law, Equity, and C.
	5.40		Moot Court.			Moot Court.	
Thurs.	4.50	Tucker.	Equity.	A.	Lorenzen.	Public Corporations.	A.
	5.40	Tucker.	Equity.	A.		Any Third Year Elective.	
Fri.	4.50	Vance.	Real Property.	A.	Maury.	Federal Procedure.	A.
	5.40	Vance.	Real Property.	A.		Any Third Year Elective.	

SCHEDULE OF MORNING CONFERENCES.

FIRST-YEAR CLASS.

First Half-Year.			Second Half-Year.	
Day.	Hour.	Subject.	Hour.	Subject.
Mon.	10	Contracts.	10	Contracts.
Tues.	9	Personal Property.	10	Commercial Paper.
Wed.	9	Criminal Law.	9	Criminal Procedure.
Thurs.	10	Contracts.	10	Carriers.
Fri.	9	Torts.	9	Sales.

SECOND-YEAR CLASS.

First Half-Year.			Second Half-Year.		
Day.	Hour.	Subject.	Day.	Hour.	Subject.
Tues.	10	Corporations.	Wed.	10	Real Property.
Wed.	10	Insurance.	Fri.	10	Real Property.
Thurs.	10	Corporations.			

THIRD-YEAR CLASS.

First Half-Year.			Second Half-Year.		
Day.	Hour.	Subject.	Day.	Hour.	Subject.
Tues.	10	Real Property.	Wed.	10	Conflict of Laws.
Fri.	10	Real Property.	Fri.	10	Public Corporations.

B. Leading to the Degree of Master of Laws.

Students admitted to the fourth year as candidates for the degree of Master of Laws are required to elect from the courses offered by the Faculty of Law and Jurisprudence subjects covering a minimum of ten hours a week. The degree, however, will not be conferred unless the student shall have satisfactorily completed the courses in the Introduction to Roman Law, the History of the English Common Law, Administrative Law, Comparative Constitutional Law, and International Law. The practice work offered in the fourth year Moot Courts may be taken and will count as two hours of the required work.

C. Leading to the Degree of Master of Patent Law.

A special course in Patent Law and Patent Law Practice is given by Professor Church. The purpose of this course is to prepare those taking it for practice in all matters involving the law of patents. The course extends throughout one year, with two lectures or sessions of the Moot Court each week.

A special course of lectures on Substantive Patent Law is delivered by Hon. Frederick I. Allen, Commissioner of Patents.

D. Leading to the Degree of Doctor of Jurisprudence.

The purpose of these courses is primarily to give to the student a more thorough and comprehensive knowledge of International Law, of the History of Law, and of Comparative Public and Private Law in order that he may attain a sounder and more philosophic understanding of the principles that underlie our own municipal law. The training and knowledge acquired in these courses will prove specially beneficial to those who desire to fit themselves for the foreign service, for the conduct of cases before international tribunals, and for the general practice in matters involving the laws of foreign countries.

I. History and Development of the Law.

1. *Roman Law:*

Introduction to Roman Law. Lectures and conferences. One hour. Asst. Professor Hau.

History and Sources of Roman Law before the Time of Justinian. Lectures and conferences. Two hours, one half-year. Asst. Professor Hau.

The Institutes of Gaius and the *Corpus Juris* of Justinian. Assigned reading and conferences. Two hours. Asst. Professor HAU.

History of the Law During the Middle Ages. Lectures and assigned reading. Two hours, one half-year. Asst. Professor HAU.

Canon Law. Lectures. One hour, one half-year. Asst. Professor HAU.

Seminary in Roman Law. Two hours. Asst. Professor HAU.

2. *Common Law:*

History of the English Common Law. Two hours, one half-year. Professor TAYLOR.

Seminary in the History of the English Common Law. One hour. Professor TAYLOR.

II. MODERN LAW.

1. *Public:*

a. International Law:

International Law. Lectures and assigned reading. One hour. Professor BREWER.

Seminary in International Law. Two hours. Professor ——— ———.*

b. Constitutional Law:

Constitutional Law. Lectures. Two hours, one half-year. Professor HARLAN.

Constitutional Law. Cases. Two hours, one half-year. Professor TUCKER.

Comparative Constitutional Law. Two hours. Professor TUCKER.

Seminary in Constitutional Law. Two hours. Professor TUCKER.

c. Administrative Law:

Administrative Law. Lectures and discussion of cases. Two hours, one half-year. Professor SCOTT.

Comparative Administrative Law. Lectures. Two hours, one half-year. Professor SCOTT.

* Vacancy to be filled before October 1.

2. *Private:*

Comparative Private Law. Lectures, conferences, and assigned reading. Two hours. Professor LORENZEN.

Comparative Commercial Legislation. Lectures and conferences. One hour. Professor LORENZEN.

Spanish-American Private Law. Lectures and conferences. One hour. Professor LORENZEN.

Not given in 1905–06.

French Legal Terminology. Two hours, one half-year. Asst. Professor HAU.

German Legal Terminology. Two hours, one half-year. Asst. Professor HAU.

Seminary in Comparative Private Law. Two hours. Professor LORENZEN.

ELECTIVE COURSES IN OTHER DEPARTMENTS OF THE UNIVERSITY.

Students taking a full course for a degree may be admitted, without additional fee except laboratory fees, to courses for which they are qualified in the Departments of Art and Sciences and of Politics and Diplomacy, provided such courses do not exceed in the aggregate six hours a week.

COURSES IN PRACTICE.

A. MOOT COURT WORK.

1. *Third Year:*

Particular stress is laid upon Moot Court work. Aside from the practice court connected with the course in Patent Law, there are four courts in which the candidates for the degree of Bachelor of Laws pursue their work. Three of these are *nisi prius* courts and are presided over by members of the Washington Bar in active practice. The fourth is a Court of Appeals to review the cases tried in the courts of first instance. This court also is composed of members of the Washington Bar.

Every third-year student before receiving the degree of Bachelor of Laws is required to prepare the pleadings in and prosecute to judgment at least four cases in the *nisi prius* courts, with the privilege of appeal to the appellate tribunal. At least two hours in each week during the year must be

spent by each third-year student in active participation in Moot Court work in the court-room to which he is assigned.

Statements of facts are furnished such as would be related to a lawyer in active practice by his client. Each student must determine whether or not upon such facts the particular case in hand is one of common-law or equitable cognizance. He must then frame his pleadings, serve his writs, and answer his adversary's pleadings until issue is joined in legal manner, after which the case is brought on for hearing in strict accordance with the rules of actual practice. Juries are empaneled in accordance with settled legal procedure, witnesses are examined and cross-examined, and the case conducted through all the various stages of the trial or hearing down to and including the judgment or decree, after which, should the case be appealed, it must be carried through the appellate court, involving the preparation of the record on appeal, briefs of counsel, etc.

2. *Fourth Year:*

The same facilities for Moot Court work as are described above are afforded in the course leading to the degree of Master of Laws. The court, however, is entirely distinct from that provided in the third-year course, and the nature of the cases assigned is somewhat different, involving, in addition to the ordinary cases at common law or in equity, cases of a special character, such as habeas corpus, certiorari, quo warranto, injunction, mandamus, extradition, replevin, attachment, etc.

3. *Officers and Equipment:*

One of the assistant clerks of the Supreme Court of the District of Columbia is the clerk of the court, but his assistants in each court-room are chosen from the student body, from whose ranks are also drawn the criers, jurors, and other officials, thus giving to the students the benefit of practice in administrative judicial machinery. The Moot Court is to all intents and purposes an actual court. The rooms in which the sessions are held are fitted up with judges' benches, clerks' desks, jury-boxes, and counsel table, and from the time the crier announces that the court is in session until he announces its adjournment the procedure is identical with that of a regular judicial tribunal.

It is believed that any student who gives the proper attention to this feature of the law curriculum will be enabled to go out from this institution and creditably try cases in court, although he may never have been in an actual court-room.

A careful record is kept of the work of each student, both as to his pleadings and his conduct of the case in court, and the ratings thus given determine, in connection with his ratings upon other subjects, whether or not he is entitled to a degree.

B. Advanced Procedure.

Every young lawyer entering upon his professional career is desirous of availing himself of the experience of an older practitioner and of learning many things which are not taught and cannot be taught from books. It is to meet the needs of this class of men that this course has been inaugurated. It is in charge of a member of the Washington Bar whose practice has been an active one, extending over a period of sixteen years.

A short introductory talk is given upon the relations between attorney and client, including the important subject of fees, after which the student is given the benefit of practical hints upon the manner of starting in practice and opening and furnishing an office, suggestions as to office systems and the selection of a library, and, incidentally, of the use of authorities in court. Then a drill is given upon contract drafting, involving the preparation by the student of leases, contracts, wills, etc. The students' papers are carefully examined by the instructor and criticised, prevalent errors and the proper manner of curing them being pointed out in the class-room.

The student is told how to listen intelligently to his client's grievances; how to draw up the pleadings arising out of these grievances; how to prepare for trial the case thus made, including the work of preparing the evidence; how to try the case and examine and cross-examine witnesses; the manner of making up the record, writing briefs, and conducting the argument on appeal. The subject of professional ethics is discussed. The course is concluded by a series of talks from a practical standpoint upon affidavits of merit and defense, attachments, replevin, habeas corpus, mandamus, etc. At various times during the year distinguished lawyers are invited to appear and discuss informally special topics of interest to the students.

EXAMINATIONS.

A. Undergraduate Courses.

Regular Examinations:

Written examinations upon all required subjects are held at the close of each semester upon those subjects that have been completed during that semester. All students, unless specially excused by the Dean, are required to take the first examination

held in any subject after their completion of the course in that subject.

No student, except by special permission of the Dean, will be allowed to take an examination in any subject unless he shall be regularly registered and have been in regular attendance upon the lectures and have done all the work required in the course of instruction upon that subject.

Conditions.

The regular examinations for the removal of conditions will be held during the first week of October in each year. Candidates for the degree of Bachelor of Laws who have not more than one condition in the subjects completed during the first semester of the third year may be given examinations for the removal of such conditions during the last week in May.

Class Standing.

Students having conditions in more than two subjects will not be advanced from one class to another. Students may have, however, an opportunity to remove conditions imposed during any academic year by taking the regular examinations for the removal of conditions at the beginning of the following year, for which no fee is charged.

Students having conditions in more than three subjects will not be allowed to register except upon special permission from the Dean.

Special Examinations.

No special examinations, other than those above provided for, will be granted to any students except those of the graduating class who, for good cause, shall have been excused by the Dean from taking any regular examination during the third year.

B. Graduate Courses.

Examinations in graduate courses will be given at such times and under such conditions as may be designated by the professors in charge.

DEGREES.

1. Bachelor of Laws.

The degree of Bachelor of Laws will be conferred upon students who shall have passed satisfactory examinations upon the subjects required in the entire course of three years and

whose attendance and conduct have been satisfactory to the Faculty.

2. Master of Laws.

The degree of Master of Laws will be conferred upon students who have successfully completed the work prescribed for the fourth year and whose attendance and conduct have been satisfactory to the Faculty.

3. Master of Patent Law.

The degree of Master of Patent Law will be conferred upon students who shall have successfully completed the work of the Patent Law course and whose attendance and conduct have been satisfactory to the Faculty.

4. Doctor of Jurisprudence.

The degree of Doctor of Jurisprudence is given for graduate work in the science of the law upon the same terms and conditions as the degree of Doctor of Philosophy in the Departments of Arts and Sciences and of Politics and Diplomacy.

The degree is conferred upon students already qualified as candidates for the degree who have pursued advanced legal studies and engaged in original research in some special branch of law under University auspices for a period of not less than three years, two of which shall be in residence, and have submitted an acceptable thesis and met all the requirements prescribed. The degree is given, however, not because of the faithful completion of a course of study according to a stated program for a given length of time, but for high attainments and proved ability to do research work in some special branch of law, as determined by the various tests applied.

The applicant may be credited with graduate work done at other universities, provided that such work is shown to be of grade and nature similar to that required here, but at least one year must be spent in residence at this University, and the other requirements of the degree as prescribed here must be fulfilled.

Every candidate immediately after qualifying for the degree of Doctor of Jurisprudence shall designate one principal or major subject and two subordinate or minor subjects, the selection to be approved by the Faculty. The major subject and at least one of the two minors must be topics taught in the Department of Law and Jurisprudence; the other minor may be chosen from any graduate work in the University properly relative to his major and approved by the Faculty. The major

and minors must be pursued under the guidance of a committee consisting of the professors in charge of the subjects chosen, with the professor in the major subject as chairman. This committee shall determine his division of time, study, and research among the major and minor topics, but in general at least one-half of the whole time spent in graduate work should be devoted to the major subject and one-fourth of the time to each of the minor subjects.

The candidate must attend the seminary work in his major subject and take the graduate courses given in his major and minors.

The candidate shall pass satisfactory examinations upon the three subjects selected, which may be taken on the fulfilment of the requirements as to residence or at such other times as may be fixed by the committee in charge of such candidate. In his major subject the candidate must show special attainments, and is liable to minute examination upon the whole ground which it covers. He is also expected to have a good general knowledge of the field contained within his two minor subjects.

A satisfactory thesis must be presented by the candidate, together with an exhaustive bibliography, exhibiting independent research in some branch of his major subject, not later than January 15 or May 1 in the year in which the degree is sought, according as he proposes to be graduated at the Winter Convocation or at Commencement.

After their acceptance theses are the property of the University, and must be deposited in the University archives, but authors are permitted to make copies. All theses must be typewritten on official thesis paper, which may be obtained from the Assistant Treasurer of the University.

No thesis for the degree of Doctor of Jurisprudence shall be submitted to the Faculty until it has been approved by the professor in supervision of the major topic, and also by a co-referee to be appointed by the Faculty. The referees shall present to the Faculty written reports on the thesis, to be filed therewith.

The candidate is expected to print his thesis, under the supervision of the professor in charge of his major topic, within one year after the degree is conferred, and shall present one hundred copies to the University, to be distributed among institutions of learning.

The candidate must defend his thesis in the presence of the Faculty or of so many of its members as may be designated by the Faculty.

LAW LIBRARY AND READING-ROOM.

A well-equipped working library, comprising 4,000 volumes, is open to the students in Law Lecture Hall from 9 a. m. to 10 p. m. Competent librarians are in charge and will give students assistance in looking up subjects and in the use of books.

The Library contains the standard text-books, the West Reporter system of Federal and State decisions complete, State Reports, the English Common Law and Chancery Reports, Encyclopædias of Law, Digests, reference books, and current law publications.

Adjoining the Library is a conversation-room for students, affording opportunity for consultation.

In addition to these facilities, the students have free access to the Congressional Library and other public libraries.

PRIZES.

A prize of $100, called "The Parker Prize," in honor of its donor, Hon. Myron M. Parker, is awarded each year to the student who attains the highest general average in examinations during the full three-years' course for the degree of Bachelor of Laws.

A prize offered by the Edward Thompson Company, of a set of the Encyclopædia of Law, first or second edition, or a set of the Encyclopædia of Pleading and Practice, is awarded each year to the senior law student who shall write the best thesis on some legal subject to be assigned by the Faculty.

Three prizes—one of $40, one of $30, and one of $20—are annually given to the respective authors of the best three essays handed in by such members of the Third-Year Class as shall compete for them and shall pass a successful examination.

A prize of $25 in gold, given by John Thilman Hendrick, and called the "David S. Hendrick Memorial Prize in Insurance Law," in honor of Mr. David S. Hendrick, will be awarded each year to the student in the Second-Year Class who writes the best essay upon some question in Insurance Law which will be selected and approved by the Faculty.

A prize of $25 in gold, offered by Mr. Fritz von Briesen, called the "Ellsworth Prize," is awarded for the best work done in the Patent Law Course by a student receiving the degree of Master of Patent Laws.

Gold medals and book prizes for excellence in intercollegiate and inter-society debates are awarded by the University.

PUBLIC SPEAKING.

Excellent facilities for training in the art of public speaking are afforded by the two debating societies that have been organized in the Department of Law and Jurisprudence. These societies, known as the Columbian and Needham Debating Societies, meet weekly for debate in Law Lecture Hall. Membership in these societies is entirely optional, but their work is encouraged in every legitimate way by the Faculty, and students are urgently advised to take part in their exercises. During each academic year several intercollegiate debates are held. Membership upon the intercollegiate debating teams is an honor eagerly sought and made the prize to be won in separate preliminary contests. The general conduct of these intercollegiate debates is under the supervision of a committee from the Faculty.

Further opportunity for training in parliamentary procedure and debate is given by the University Congress, an organization patterned after that of the Congress of the United States, in which bills are introduced and debated and the general procedure of legislative assemblies followed.

ADMISSION TO THE BAR OF THE DISTRICT OF COLUMBIA.

By the rules of the Supreme Court of the District of Columbia, applicants for admission to the Bar are required to have studied law for three years under the direction of a competent attorney, but by those rules the course in the Department of Law of the University is regarded as discharging this requirement.

FEES.

1.	Matriculation fee (payable only on first entry into the University)	$5 00
2.	Library fee, per annum	2 00
3.	Tuition fee for regular courses, per annum	100 00
4.	Tuition fee for course in Patent Law	40 00
5.	Tuition fee for fourth-year practice course	25 00
6.	Tuition fee for special courses, per month	12 50
7.	Fee for a certificate under the seal of the University.	2 00
8.	Fee for graduation with diploma	10 00
9.	Auditors are admitted to lecture courses for the regular tuition fees, but are not permitted to take active part in the work of the classes and will not be allowed credit, in a subsequent course of studies leading to a degree, for attendance as auditors. No matriculation or library fee is charged.	

NOTE.—The amount of fee is fixed by the Registrar at the time of registration in accordance with the foregoing schedule, and no change will be made therein excepting in case of a change in or withdrawal from a course of studies, and then only upon notice in due form and from the end of the current quarter session in which such change or withdrawal shall be approved. Applications for permission to change or withdraw from a course of studies should be made on the prescribed form to be obtained from the Registrar.

The library fee will not be charged for the first half-year during which a course is completed in the case of students who enter at the beginning of the second half-year and pay the library fee for that year.

PAYMENT OF FEES.

All fees are to be paid to the Assistant Treasurer. Regular tuition fees are payable quarterly in advance. Fees for special courses are payable monthly in advance. Matriculation and library fees are payable in full in advance.

BOARD AND ROOMS.

The price of table board and rooms varies according to locality. Good accommodations may be secured at some distance from the University buildings for two hundred dollars for the session of thirty-three weeks. In the neighborhood adjacent to the University, by reason of its nearness to the heart of the best business section of the city, prices range from two hundred and fifty to three hundred and fifty dollars for the session of thirty-three weeks. Students frequently form clubs for the purpose of obtaining a reduction in the cost of living. A register of approved boarding-houses is kept by the Assistant Treasurer, who will gladly furnish information in relation thereto or in connection with any other matters conducive to the comfort of students seeking a residence in the city of Washington.

For catalogues, application blanks, and further information address

OTIS D. SWETT, *Registrar*,
The George Washington University,
Washington, D. C.

Department of Politics and Diplomacy.

FACULTY.

CHARLES W. NEEDHAM, LL.D...PRESIDENT OF THE UNIVERSITY
HENRY ST. GEORGE TUCKER, LL.D....Dean, Professor of Comparative Constitutional Law
JOHN M. HARLAN, LL.D....Professor of American Constitutional Law
DAVID J. BREWER, LL.D.....Professor of International Law
JOHN W. FOSTER, LL.D.....Professor of American Diplomacy
*DAVID J. HILL, LL.D..... .....Professor of European Diplomacy
CHARLES C. SWISHER, Ph.D.....Professor of History and Politics
HANNIS TAYLOR, LL.D.....Professor of the History of English Law
OSCAR P. AUSTIN..... Professor of Commercial Geography
GEORGE WINFIELD SCOTT, Ph.D., LL.B.....Professor of Administrative Law
ERNEST G. LORENZEN, Ph.B., LL.B., J.U.D.....Professor of Comparative Commercial Legislation
C. WILLIAM A. VEDITZ, Ph.D., LL.B.....Professor of Economics
†——— .....Professor of Political Institutions
†——— .....Professor of International Law and Diplomacy
JOHN W. HOLCOMBE, M.Dip.....Assistant Professor of Politics
CHARLES RAY DEAN, M.Dip.....Assistant Professor of European Diplomacy

LECTURERS.

HERMANN SCHOENFELD, Ph.D., LL.D..Lecturer on European Politics
WILLIAM T. HARRIS, LL.D.....Lecturer on the Philosophy of History
CARROLL D. WRIGHT, LL.D.....Lecturer on Statistics and Social Economics
MITCHELL CARROLL, Ph.D.....Lecturer on Greek and Roman Political Institutions
JAMES C. MONAGHAN, A.M..... Lecturer on the Consular Service
†——— .....Lecturer on European Diplomacy
OTIS D. SWETT, B.S., LL.M..... Secretary

*Absent on leave. † To be appointed.

GENERAL STATEMENT.

The "Department of Jurisprudence and Diplomacy" of the University was established in June, 1898, and was formally opened in November of the same year. Since that time it has

been closely affiliated with the Law Department. In the fall of 1905, however, this Department will cease to have any organic connection with the Law Department, save as one of the several schools of the University, and will constitute a distinct branch of the professional and graduate work of the institution, to be hereafter designated as the Department of Politics and Diplomacy. This name is intended to indicate in a broad way the following general divisions of study: (1) The Structure and Administration of the State or Body Politic; (2) Economics, or the Production, Movement, Distribution, and Consumption of Things and Services; (3) International Law and Diplomacy—the Obligations and Relations of States to one another.

The purpose of the Department, briefly stated, is to fit young men for the public service at home and abroad, particularly for the consular and diplomatic service, and to supply that knowledge of the public life of this country and of foreign countries which will be of most value to journalists, teachers, and other persons aiming to become moulders of public opinion upon the national and international issues of the day.

As the Department is being reorganized, changes will be made before the opening of the academic year. Notice of these changes will be given in a special announcement.

ADMISSION.

The Department of Politics and Diplomacy is a graduate school. Before a student can be admitted he must give evidence that he has completed a liberal undergraduate course of academic study such as is required by colleges of good standing antecedent to the baccalaureate degree. The President's Council reserves the right to decide in all cases whether the antecedent training fulfils the requirements. No student, however, can be admitted to regular standing unless he has a knowledge of at least one modern European language—French, German, Spanish, or Italian.

Any person approved by the Faculty may attend one or more courses as a special student, and will receive for the satisfactory completion of such course or courses a Certificate of Proficiency. All the departments of the University are open to regular students in this Department without additional charge. No student, however, will be permitted to carry on simultaneously work for two distinct degrees unless this is expressly allowed. Upon the presentation of satisfactory evidence, students coming here from other institutions to complete their studies may

be admitted to advanced standing if they have already done work equivalent to that required here.

DEGREES.

Two degrees are conferred by this Department—that of Master of Diplomacy and that of Doctor of Philosophy. Neither degree is conferred *in absentia* except with the express sanction of the Faculty.

Candidates for the degree of Master of Diplomacy must pass at least two full years of residence at this University. They shall sustain satisfactory examinations on the studies pursued, and present an acceptable thesis, together with a bibliography of the subject investigated. Each student, moreover, must have satisfactorily completed, before he can graduate, courses aggregating at least ten hours per week for each of the two years of his preparation. This total number must include all of the courses that are hereinafter designated as "required." In the selection of elective courses to make up the total number of hours required, students must consult with the Advisory Committee of the Faculty of this Department. No course taken by a student shall be counted twice in the fulfilment of requirements for degrees. No student can graduate who has not passed a satisfactory examination, at the end of his course, in two modern European languages, one of which must be French. Theses for the Master's degree in Diplomacy must be presented in their final form not later than May 1 of the year in which a student expects to graduate.

Candidates for the degree of Doctor of Philosophy in this Department must have pursued specialized courses in University subjects and engaged in original research in certain of the subjects taught in this Department, under the auspices of the professors in charge of those subjects, for a period of not less than three years, and have submitted an acceptable thesis and met all the requirements prescribed. The degree is given, however, not because of the faithful completion of a course of study according to a stated program for a given length of time, but for high attainments and proved ability to do research work in some special branch of knowledge, as determined by the various tests applied.

Before a student can become a candidate for the degree of Doctor of Philosophy in this Department he must give evidence that he has completed a liberal undergraduate course of academic study such as is required by colleges of good standing antecedent to the baccalaureate degree. The President's Coun-

cil reserves the right to decide in all cases whether the antecedent training fulfils the requirements. Should the candidate for the degree of Doctor of Philosophy already possess the degree of Master of Diplomacy and elect his major subject and at least one minor from among the subjects offered in the Department of Politics and Diplomacy, the minimum period of further study requisite for attaining the degree shall be two years instead of three. The applicant for the Doctor's degree may be credited with graduate work done at other universities, provided that such work is shown to be of a grade similar to that required here ; but at least one year must be spent in residence at this University, and the other requirements of the degree as prescribed here must be fulfilled.

Candidates for the degree of Doctor of Philosophy shall offer themselves in three topics from the University subjects—one major and two collateral minor studies—the combination to be approved by the President's Council. These must be pursued under the guidance of a committee consisting of the professors in charge of his major and minor topics, with the professor in the major subject as chairman. This committee, in charge of the candidate, shall determine his division of time, study, and research in the major and minor topics, but in general the major topic should be pursued during the whole time devoted to graduate work and each minor topic during at least one year.

The candidate shall pass satisfactory written examinations upon the three subjects selected. The examinations in the minor topics may be taken at the completion of the courses pursued or at the discretion of the professors in charge. In written examinations the time limit is four hours for the major and three hours for the minor topics.

The candidate must show that he possesses a knowledge of French and German, as evidenced by familiarity with the French and German literature pertaining to his special branches of study. The head professor of a subject may require such knowledge of other subjects as is considered fundamental.

The candidate must present a satisfactory thesis not later than May 1 of the year in which the degree is sought, together with an exhaustive bibliography. The thesis must represent independent thinking and research in some branch of his major subject.

After their acceptance theses shall become the property of the University and must be deposited in the University archives, but authors are permitted to make copies. All theses, before submission for the degree, must be typewritten on official thesis paper, which may be obtained from the Assistant Treasurer of the University.

No thesis for the degree of Doctor of Philosophy shall be submitted to the University Council until it has been approved by the professor having supervision of the major topic, and also by a co-referee to be appointed by the President's Council. The referees shall present to the Council written reports on the thesis, to be filed therewith.

The candidate is expected to print his thesis, under the supervision of the professor in charge of his major topic, within one year after the degree is conferred, and shall present one hundred copies to the University, to be distributed among institutions of learning. The candidate, finally, must defend his thesis and submit to an oral examination upon his major topic before a board of experts, to be appointed by the President's Council, consisting of three specialists of university standing and established reputation in the subject represented by the principal topic.

SCHEDULE OF COURSES.*

REQUIRED COURSES.

First Year, First Half-year:

International Law. One hour per week. Professor BREWER.

Constitutional Law of the United States. Two hours per week. Professor HARLAN.

History and Methods of Arbitration. One hour per week. Professor ———.

Political History of the United States. Two hours per week. Professor SWISHER.

Economic and Commercial Geography. Two hours per week. Professor AUSTIN.

First Year, Second Half-year :

International Law. One hour per week. Professor BREWER.

History of European Diplomacy. Two hours per week. Professor ———.

Political History of the United States. Two hours per week. Professor SWISHER.

Economic and Commercial Geography. Two hours per week. Professor AUSTIN.

Organization of the State Department. One hour per week. Professor ———.

* This schedule is subject to modifications.

Second Year, First Half-year :

History of American Diplomacy and Treaties. Two hours per week. Professor FOSTER.

Comparative Constitutional Law. One hour per week. Professor TUCKER.

Political History of Europe in the Nineteenth Century. Two hours per week. Professor SWISHER.

Origin and Growth of the English Constitution. Two hours per week. Professor TAYLOR.

Comparative Administrative Law. Two hours per week. Professor SCOTT.

Seminary in Political Science. One hour per week. Professor SWISHER.

Second Year, Second Half-year :

Comparative Constitutional Law. One hour per week. Professor TUCKER.

Political History of Europe in the Nineteenth Century. Two hours per week. Professor SWISHER.

International Trade. One hour per week. Professor AUSTIN.

The Economics of Commerce. Two hours per week. Professor VEDITZ.

The Consular Service. One hour per week. Mr. MONAGHAN.

Seminary in Political Science. One hour per week. Professor SWISHER.

The Seminary in Political Science will meet one evening each week for a session of at least two hours' duration, but is regarded as equivalent to but one hour's class-room work.

In order to complete the required number of hours (ten) per week, students are allowed to select from among the following list of elective courses or from among any of those offered to students in the Department of Arts and Sciences, provided always that the selection is approved by the professors in charge and by the Advisory Committee of the Faculty :

ELECTIVE COURSES.

(Open to both first and second year students.)

First Half-year:

Bismarck as a Statesman. One hour per week. Professor SCHOENFELD. (In alternate years; given in 1905–06.)

Disraeli as a Statesman. One hour per week. Professor SWISHER. (In alternate years; not given in 1905–06.)

Colonial Politics. One hour per week. Professor SWISHER.

The Government of France. One hour per week. Professor VEDITZ. (In alternate years; not given in 1905–06.)

The Federal Government of Germany. One hour per week. Professor VEDITZ. (In alternate years; given in 1905–06.)

Public Finance. Two hours per week. Professor VEDITZ. (In alternate years; will not be given in 1905–06.)

Second Half-year:

Government Control of Railroads. Two hours per week. President NEEDHAM.

Problems of Eastern Europe. One hour per week. Professor SCHOENFELD. (In alternate years; not given in 1905–06.)

The Oriental Problem. One hour per week. Professor SWISHER. (In alternate years; given in 1905–06.)

American Social Problems. Two hours per week. Professor VEDITZ.

Public Life of the Greeks and Romans. Two hours per week. Professor CARROLL. (Given every third year; given in 1905–06.)

Throughout the Year:

British Imperialism. Two hours per week. Professor SWISHER.

Comparative Politics. One hour per week. Professor SWISHER.

Comparative Commercial Legislation. One hour per week. Professor LORENZEN. (In alternate years; given in 1905–06.)

Elementary Economics. Two hours per week. Professor VEDITZ.

Foreign Legal Terminology. Two hours per week. Professor LORENZEN and Asst. Professor HAU.

Outline statements of the nature and scope of all the above courses of study will be published as soon as the reorganization of the Department is completed.

In view of the fact that students in this Department are required, before graduating, to be familiar with two modern European languages, of which one shall be French, the courses in French, German, Spanish, and Italian which are offered in Columbian College will be open to students in Politics and Diplomacy.

Arrangements are now being made to provide for a number of lecture courses not enumerated in this Catalogue. These will probably include special lectures on the organization of the diplomatic service of other nations, the history of international conventions, and on the lives of eminent statesmen and diplomats, by some of the Diplomatic Corps resident in Washington and by other distinguished public men.

FEES.

1. Matriculation fee (payable only on first entry into the University)	$5
2. Library fee, per annum	2
3. Tuition fee for regular courses, per annum	100
4. Tuition fee for separate subjects, each	15
5. Fee for a certificate under the seal of the University	2
6. Fee for graduation with diploma	10
7. Auditors are admitted to lecture courses for the regular tuition fees, but are not permitted to take active part in the work of the classes and will not be allowed credit, in a subsequent course of studies leading to a degree, for attendance as Auditors. No matriculation or library fee is charged.	

The amount of fees is fixed by the Registrar at the time of registration in accordance with the foregoing schedule, and no change will be made therein excepting in case of a change in or withdrawal from a course of studies, and then only upon notice in due form and from the end of the current quarter session in which such change or withdrawal shall be approved.

Applications for admission to change or withdraw from a course of studies should be made on the prescribed form to be obtained from the Registrar.

PAYMENT OF FEES.

All fees are to be paid to the Assistant Treasurer. Regular fees are payable quarterly, in advance. Matriculation, library, and fees for special courses are payable in full, in advance.

For catalogues, application blanks, and further information address

OTIS D. SWETT, *Registrar*,
The George Washington University,
Washington, D. C.

PART III.

BOARDS, COMMITTEES, AND AUXILIARY ORGANIZATIONS.

BOARD OF UNIVERSITY PUBLICATIONS.

The President, *ex-Officio.*
Mitchell Carroll, Ph.D., *Chairman.* D. Kerfoot Shute, M.D.
Charles E. Munroe, Ph.D. William R. Vance, Ph.D., LL.B.
Otis D. Swett, B.S., LL.M., *Secretary.*

The Board of University Publications was organized to have administrative and editorial supervision over the official publications of the University. The George Washington University Bulletin is published four times a year as the organ of the educational and scientific activities of the University. The University Catalogue constitutes one number. The Alumni Number, issued in June, is devoted to information regarding the work and plans of the University of especial interest to alumni and patrons. Scientific numbers are published from time to time, containing contributions from instructors and graduates and information regarding books, monographs, and papers issued by them under other auspices. A supplement to the University Bibliography appears annually, containing titles of publications for the current year and lists of publications of instructors and graduates not appearing in the 1904 Bibliography.

COMMITTEE ON THE UNIVERSITY LIBRARY.

Charles Clinton Swisher, Ph.D., *Chairman.*
William R. Vance, Ph.D., LL.B., *Secretary.*
Frank H. Bigelow, A.M., LL.D.
A. F. A. King, M.A., M.D., LL.D.
Hermann Schoenfeld, Ph.D., LL.D.

This Committee, consisting of members from the various Faculties, was organized for the purpose of making recommendations in regard to the selection of books for purchase, the expenditure of the Library Fund, and the general administration of the Library.

UNIVERSITY ATHLETICS.

ATHLETIC COUNCIL.

Faculty Members.

CHARLES EDWARD MUNROE, Ph.D., Head Professor of Chemistry.
THOMAS A. CLAYTOR, M.D., Professor of Materia Medica and Therapeutics.
JOHN PAUL EARNEST, A.M., LL.M., Professor of Law.

Alumni Members.

W. F. R. PHILLIPS, M.D., *Chairman.*

E. R. ALEXANDER.
C. M. BEALL, M.D.
S. H. GREENE, JR., M.D.
H. P. BLAIR.

Undergraduate Members.

P. E. GARRISON, President of the Athletic Association.
E. C. STEVENSON, Captain of Base-ball Team.
DALLAS G. SUTTON, Manager of Base-ball Team.
B. G. STEENERSON, Captain of Foot-ball Team.
ROY C. HEFFLEBOWER, Manager of Foot-ball Team.

The Athletic Council has complete control over all athletic sports, subject to the general authority of the President's Council. The Athletic Council is determined annually as follows: The Faculty members are appointed by the President of the University; the President of the Athletic Association (undergraduate organization), and the managers of the base-ball and foot-ball teams are elected annually by the Association; the Alumni members are chosen by the Athletic Council from the Alumni. Each member of the Council has one vote, except the Alumni members, who collectively have three votes. No student is permitted to take part in any athletic contest who is not regularly registered as taking a full course in the University and whose class standing is unsatisfactory. No student is permitted to engage in any contest unless his physical condition is approved by a medical examiner designated by the Council.

COMMITTEE ON DRAMATIC AND MUSICAL ORGANIZATIONS.

HOWARD L. HODGKINS, Ph.D. *Chairman.*
MITCHELL CARROLL, Ph.D.
C. WILLIAM A. VEDITZ, Ph.D., LL.B.

This Committee has general supervision over dramatic and musical societies organized among the students of the University. Students desiring to form such clubs must submit to the Committee a draft of their proposed undertaking, together with the name of the business manager and a list of prospective members, for the approval of the Committee.

ASSOCIATION OF CLASS PRESIDENTS.

IRVIN S. PEPPER, Law, '05, *President.*
HARRY E. COLLINS, Arts and Sciences, '06, *Vice-President.*
EDWARD C. WILSON, Medical, '07, *Secretary.*
FRANK WEST, Arts and Sciences, '08, *Treasurer.*
WM. J. FRENCH, Medical, '05, *Chairman Executive Committee.*
MARK R. WOODWARD, Arts and Sciences, '05.
RICHARD C. NEWBOLD, Arts and Sciences, '07.
FRANK E. WINTER, Medical, '06 (acting).
THOS. H. ATHEY, Medical, '08.
ADELBERT M. BASSFORD, Dental, '05.
DONALD H. MCLEAN, Law, '06.
R. I. MOORE, Law, '07.
FRED H. BENSON, Master of Laws, '05.
PACA OBERLIN, Master of Diplomacy, '05.
FREDERICK C. BRYAN, Doctor of Civil Law, '05.
R. BRUCE ATKINSON, Architecture, '05.

The Association of Class Presidents is an organization made up of the Presidents of the various classes in the University. It is thus a truly representative body, and is clothed with sufficient authority to render its actions important and far-reaching. It is through this body that the University authorities are able to keep in close touch with each class in the University and to communicate with them as occasion may require. One of the notable achievements of this organization during the present year was its pioneer work in the establishment of the Board for the Publication of the University Annual, "The Mall," and putting the same on a permanent basis.

ALUMNI ASSOCIATIONS.

THE GENERAL ASSOCIATION.

Officers, 1904–1905.

President.

WILLIAM BRUCE KING.

Vice-Presidents.

DR. GEORGE N. ACKER.
ALDIS B. BROWNE.
JOHN PAUL EARNEST.
JOHN JOY EDSON.
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THEODORE W. NOYES.
STANTON C. PEELLE.
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President.

CHARLES F. MUNDAY.

Vice-President.

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Secretary and Treasurer.

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Dexter Horton Bank Building, Seattle, Washington.

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President.

LUCIUS M. CUTHBERT.

Vice-President.

HERBERT L. MCNAIR.

Secretary and Treasurer.

CLARENCE A. BRANDENBURG.
501 Equitable Building, Denver, Colorado.

SALT LAKE CITY ALUMNI ASSOCIATION.

Secretary.

M. R. BROTHERS.

68 Commercial Block, Salt Lake City, Utah.

NEW YORK ALUMNI ASSOCIATION.

President. FRITZ V. BRIESEN.

Secretary. OLIVER C. CARPENTER.

52 William Street, New York City, N. Y.

From 1821 to 1905 the University conferred 6,134 degrees upon 4,808 persons. A list of graduates is kept at the University by the Secretary of the General Alumni Association, and contains the names, occupations, and addresses of more than 3,200 living graduates. All Alumni are requested to send to him notices of changes in address and any other items of information and interest in reference to graduates or former students of the University.

THE COLUMBIAN WOMEN.

President.

Miss JANET MCWILLIAMS.

First Vice-President. MRS. W. H. HERRON.

Second Vice-President. MRS. J. W. HOLCOMBE.

Recording Secretary. MISS E. HILLYER.

Corresponding Secretary. MRS. E. A. HILL.

Treasurer. MISS FLORENCE BINGHAM.

Historian. MISS E. H. TURNER.

The Columbian Women, an organization composed of Alumnæ, wives of Trustees and members of the Faculty, and women students of the University, was formed in 1893 for the advancement of women, by founding for them scholarships in the University, and for the promotion of the general interests of the University. There are at present 193 members. In

recent years it has devoted itself mainly to collecting funds for a scholarship to be known as "The Columbian Women Scholarship." They have also raised money for the University Hospital and for reference books for the Library.

BOARD OF LADY MANAGERS OF THE GEORGE WASHINGTON UNIVERSITY HOSPITAL.

President.

MRS. CHARLES W. RICHARDSON.

First Vice-President.	*Second Vice-President.*
MRS. ELIZABETH WALBRIDGE.	MRS. L. E. PAYSON.
Recording Secretary.	*Corresponding Secretary.*
MRS. F. W. TRUE.	MRS. W. MCK. STOWELL.

Treasurer.

MRS. S. E. LEWIS.

The Board of Lady Managers of the University Hospital was formed at the inception of the Hospital, in 1898, to act as "a Board of Visitors, with power to raise money for the Hospital, and with such powers and duties in connection with the purchase of supplies and equipment as are assigned them by the President." The Board consists of ninety women, who meet monthly to consider the various needs of the Hospital and to plan how best to meet them. The equipment of the enlarged building for the Hospital was due chiefly to the energies of this Board.

GEORGE WASHINGTON MEMORIAL ASSOCIATION.

President.

MRS. ARCHIBALD HOPKINS.

Vice-Presidents.

MRS. CHARLES D. WALCOTT.	MRS. CHARLES J. BELL.
MRS. HENRY MALLORY.	MRS. FRED B. MCGUIRE.
MISS BESSIE J. KIBBEY.	MISS ALICE RISLEY SEWARD.
Corresponding Secretary.	*Recording Secretary.*
MRS. J. HUBLEY ASHTON.	MRS. SUSANNA PHELPS GAGE.

Treasurer.

MRS. FRANK NORTHRUP.

Trustees.

MRS. L. D. M. SWEAT. MRS. PHŒBE A. HEARST.
MRS. LESLIE C. WEAD.

Treasurer Permanent Building Fund.

MR. CHARLES J. BELL.

The George Washington Memorial Association, incorporated September, 1898, is a body of patriotic women representing different parts of the United States, who organized with a view to memorialize Washington's idea of a national institution and to provide a building for scientific research and graduate study. The objects of the Association, stated in the charter, are "to advance and secure the establishment in the city of Washington of an university for the purposes and with the objects as substantially set forth in and by the last will of George Washington, the first President of the United States, and to increase the opportunities for higher education of the youth of the United States."

In the spring of 1904 the Trustees of Columbian University accepted the change of name suggested by the George Washington Memorial Association and its offer to erect on the new site a memorial building for graduate study and scientific research.

PART IV.

STUDENTS IN THE UNIVERSITY.

Students in the University.

DEPARTMENT OF ARTS AND SCIENCES.

COLUMBIAN COLLEGE.

Bachelor of Arts.

Name.	Legal residence.	City address.
Allen, Dot	Neb	1116 Vermont Avenue.
Barber, Clara Velma	Fla	703 East Capitol Street.
Barbour, Grace Evelyn	D. C	1327 12th Street, N. E.
Barbour, Stella May	Mo	1327 12th Street, N. E.
Bethune, Frances Gunby	Va	633 A Street, N. E.
Birch, Mary Simpson	Va	1107 Lydecker Ave.
Birtwell, Bertha	Pa	15 8th Street, N. E.
Block, Karl Morgan	D. C	145 11th Street, N. E.
Bodmer, Annie Elizabeth	D. C	1325 1st Street, S. W.
Bradshaw, May Paul	D. C	901 C Street, N. E.
Brookes, John St. C., Jr.	D. C	1525 Corcoran Street.
Brown, Robson De S	Iowa	503 S Street.
Bulloch, Archibald Irvine	Ga	828 13th Street.
Burgdorf, Ada Belle	D. C	512 6th Street.
Burroughs, Elizabeth H	D. C	515 7th Street, S. E.
Capell, Isabel Rhoda	D. C	471 H Street.
Conner, Lulu Elizabeth	D. C	Station 47.
Cragin, Harry Seymour	D. C	903 M Street.
Crawford, Mrs. Mary Page	Va	2026 N. Capitol Street.
De Forest, August Moulton	Kansas	49 Rhode Island Avenue.
De Lancy, Roi	Ohio	903 10th Street.
Downing, Elizabeth	D. C	459 Florida Avenue.
Earl, Merritt	Wis	1641 R Street.
Evans, Helen Marie	D. C	2227 13th Street.
Field, Ruth Genevieve	Wis	111 11th Street, S. E.
Fosselman, John Jones	Pa	Bureau of Education.
Gates, Edward Percy	Ark	3506 Center Street.
Gilchrist, Grace Gertrude	Pa	652 Mass. Avenue, N. E.
Green, G. Emery	Mass	Quincy, Mass.
Haslup, Alice Elma	D. C	1322 I Street.
Hurley, Mary Louise	Md	Rockville, Md.
Kirkman, Reymond Fauche	Ill	2017 Kalorama Avenue.
Little, Agnes Inch	D. C	510 E Street, N. E.
Macmullen, Edgarda Marion	Pa	107 2d Street, N. E.

Name.	Legal residence.	City address.
Mahan, Jane	W. Va.	1250 Columbia Road.
McAvoy, Catharine A	D. C.	1917 17th Street.
McCleary, Ethel Hanna	D. C.	217 I Street.
McCoy, Louise Winifred	D. C.	328 E Street, N. E.
McCoy, Marion Elizabeth	S. Dak.	1014 D Street, N. E.
McPherson, Maud Esther	D. C.	1250 Princeton Street.
Merrill, Anne Margaret	Maine	1422 Staughton Street.
Merritt, Pearl Ketcham	Minn	154 F Street, S. E.
Morrow, James Benjamin	D. C.	3123 13th Street.
Moyer, Jennie	D. C.	610 8th Street, N. E.
Parkinson, Nellie Annie	Mo	723 19th Street.
Peet, Elizabeth	N. Y	Kendall Green.
Person, Ellen Bertha	S. Dak.	3112 Q Street.
Raber, Katherine M.	Ohio	1101 K Street.
Reinke, Charlotte	Texas	The Iowa.
Ruedy, Casper Otto	D. C.	625 Maryland Ave., N. E.
Salsbury, Annis	Va	1417 Park Street.
Schoenfeld, Hans F. A.	D. C.	1629 Howard Avenue.
Seiler, Justin Frank	Ohio	1013 B Street, N. E.
Sherman, Dorothea Foote	Va	428½ M Street.
Singleton, Ogle Ridout	D. C.	2020 H Street.
Smith, Kate Lloyd	Va.	Alexandria, Va.
Smith, Louise Jane	W. Va.	513 B Street, N. E.
Sniffin, William Webb	D. C.	312 N. C. Avenue, S. E.
Stevens, Clella Lucile	Pa	641 B Street, N. E.
Stout, Lillian Edna	D. C.	207 9th Street, S. W.
Suit, Florence Eugenia	Md.	2016 G Street.
Swartwout, Jessamine E.	D. C.	12 Iowa Circle.
Swett, Annie Kate	D. C.	1822 9th Street.
Taylor, Adèle Ria	D. C.	2705 P Street.
Van Vleck, William C.	D. C.	800 E Street, N. E.
Veerhoff, Otto Louis	D. C.	1436 Park Street.
Warn, Amy Louise	Kansas	913 Rhode Island Ave.
Watkins, Rhoda	Pa	1412 14th Street.
Watts, William Prescott	N. Y	205 East Capitol Street.
West, William Kemper	Ky.	Takoma Park, D. C.
White, Emile Margaret	D. C.	2568 University Place.
Whitmore, Clarence W.	D. C.	807 1st Street.
Winship, Charles Berry	D. C.	1688 31st Street.
Young, Ruth Bell	Va.	703 The Sherman.

Bachelor of Science.

Abert, Franklin Bache	Md.	Rockville, Md.
Adams, Raymond Edmond	Pa.	2118 G Street.
Albert, Frederiek W.	Pa.	2307 32d Street.

Name.	Legal residence.	City address.
Allen, Fanny May	Md.	226 12th Street, S. E.
Allen, Nila Frances	Ind.	323 Maryland Ave., N. E.
Auerbach, Edith Bertha	D. C.	1209 6th Street.
Austin, Ella Morgan	W. Va.	The Caywood.
Austin, Hamilton L.	Ark.	1213 Q Street.
Backus, Curtis Beall	Va.	1203 N. H. Avenue.
Balentine, Susan Louise	Ohio.	1832 K Street.
Ball, Eugene Maurice	D. C.	3134 P Street.
Bartley, Thomas Andrew	Md.	1429 New York Avenue.
Baumer, Hubert Herndon	Ala.	1212 Fort St., Brookland.
Bean, George Tinny	Pa.	312 Randolph Street, N.E.
Behrend, Esther May	D. C.	1214 K Street.
Bennett, Walter J.	Ohio.	U. S. Weather Bureau.
Bowker, Charles Harvey	N. H.	3421 Brown Street.
Boyden, John Hanson	Va.	1014 K Street.
Bragaw, Richard	N. Y.	1715 De Sales Street.
Brandenburg, Joseph F.	D. C.	915 French Street.
Brown, Frederick G	Wis.	207 A Street, N. E.
Brown, Robert Harlie	Oregon.	1130 Park Place, N. E.
Bruninga, John H.	Ill.	Bureau of Standards.
Burke, Francis Edward	D. C.	1212 I Street.
Burner, Charles Edwin	D. C.	1203 S Street.
Burrell, William W.	Pa.	417 Massachusetts Ave.
Butman, Carl Hawes	Mass.	1454 Chapin Street.
Campbell, Arthur Herbert	Mo.	Post Office Department.
Canby, Thomas Hynson	Md.	813 T Street.
Carter, James Roy	Mich.	1014 I Street.
Chase, Dana Carl	Idaho.	1400 K Street.
Clarke, Mortimer	Md.	Kenova Flats.
Cochran, Mildred Winans	Colo.	2464 Wisconsin Avenue.
Coffin, Mrs. Mary B.	Pa.	The Portner.
Cole, Luke A.	W. Va.	Coast & Geodetic Survey.
Collins, Harry Ellis	D. C.	44 C Street, N. E.
Conard, Robert Allen.	D. C.	The Stoddart.
Coope, Harry	Ohio.	706 11th Street.
Crocker, Howard D.	Va.	Ballston, Va.
Croxton, Roland Albert.	D. C.	1332 T Street.
Cummings, Thomas F.	Minn.	1238 Kenesaw Avenue.
Curl, Joseph Ryland	D. C.	2312 I Street.
Dahn, Frank F. W.	Minn.	1211 B Street, S. E.
Daniels, Ara Marcus	D. C.	1401 T Street.
Davidson, William Key.	D. C.	401 C Street, S. E.
Davis, Raymond Tilton	Md.	632 F Street, S. W.
Davis, Robert H.	D. C.	938 O Street.
Dawson, Edward M., Jr	D. C.	1752 S Street.

Name.	Legal residence.	City address.
Day, Rufus Spalding	D. C.	1301 Clifton Street.
De Grange, Henry Clay	Md.	617 H Street.
Duffey, Charles Edward	Va.	Alexandria, Va.
Dunstan, Edwin Vivian	Va.	326 Mass. Ave., N. E.
Dyson, Arnold Horton	R. I.	3020 Irving Place.
Earnest, Ralph	D. C.	1501 Caroline Street.
Elliot, William P	D. C.	The Portner.
Elsom, James Douglas	D. C.	631 8th Street.
Evans, William Ashton	Md.	Astoria Pharmacy.
Faustman, William F	N. Y.	1715 De Sales Street.
Fennell, Aloysius S	D. C.	814 I Street.
Field, James Eldon	Texas	204 F Street.
Fleming, Robert F	Va.	1847 Wyoming Avenue.
Fleming, W. H. Irwin	D. C.	1847 Wyoming Avenue.
Folger, Ben Baker	Maine	25 Iowa Circle.
Ford, Stephen O	D. C.	1334 11th Street.
French, Francis Raymond	D. C.	2625 13th Street.
Fryer, Ross Lauder	N. Y.	43½ Bates Street.
Fulton, Horace Marion	D. C.	1211 Vermont Avenue.
Garges, Eugene Paul	D. C.	713 N. Carolina Ave., S.E.
Garvin, Edgerton C	Ohio	The Brunswick.
Gibson, Harry C	Pa.	Bureau of Standards.
Gill, Wilbur Draper	D. C.	1925 Cincinnati Street.
Gordon, Haynes Haskill	Ohio	1310 Princeton Street.
Gourley, George Frederick	Md.	615 15th Street.
Graham, Julian Pitzer	D. C.	1125 6th Street.
Gregory, Charles Nichols	N. Y.	302 C Street.
Gunning, James McIntoch	N. J.	25 8th Street, S. E.
Gwinn, Thomas R	Ga.	1216 Connecticut Avenue.
Handy, Walter Kerr	Va.	1331 12th Street.
Hanna, William A., Jr	Miss.	1025 22d Street.
Harley, George Foster	Ga.	1213 New Jersey Avenue.
Harper, Minnie	D. C.	619 G Street, S. W.
Harrington, Katherine	D. C.	Conduit Road.
Harrington, Edward J	Pa.	417 I Street, N. E.
Hartley, Harry Cutter	Ill.	76 The Plymouth.
Hathaway, Lillie Theresa	Ohio	U. S. Treasury.
Hemmick, Frank Schley	Md.	1819 F Street.
Hepburn, Harry Marlin	Iowa	6 B Street, N. E.
Heron, Kenneth Austin	D. C.	511 2d Street.
Hicks, William Garritee	D. C.	102 5th Street, N. E.
Hill, Hugh Stewart	Wyo	815 11th Street, N. E.
Homrighaus, Albert H	D. C.	1306 S Street.
Honn, Harlan Verne	S. Dak.	1118 12th Street, N. E.
Hornaday, Frank A	Texas	1715 Lincoln Ave., N. E.

Name.	Legal residence.	City address.
Houghton, Harry Wilson	Md.	Dept. of Agriculture.
Howard, John Chalmers	D. C.	1916 F St.
Hubbard, Prévost	D. C.	1804 17th Street.
Hudson, Ervine Eason	Miss.	702 19th Street.
Hurdle, Reginald Truman	Ky.	Dept. of Agriculture.
Hursey, John Stealey	D. C.	908 S Street.
Illman, Herbert P.	D. C.	1528 10th Street.
Jackson, Frank Herbert	D. C.	1237 Hartford St., N. E.
Johnson, Arthur Edward	Conn.	1523 Vermont Avenue.
Johnson, Clara Elizabeth	Ind.	706 11th Street.
Kemp, Silas V.	Md.	Navy Yard.
King, Edwin Hauptman	D. C.	Takoma Park, D. C.
Kramer, Stephen Elliott	D. C.	1318 S Street.
Ladd, Mary Butler	D. C.	1781 Columbia Road.
Laurie, Johannes C.	Pa.	District Building.
Lawton, William Henry	D. C.	2024 H Street.
Lockwood, Vesta	D. C.	21 7th Street, S. E.
Lombard, Charles Russell	Maine.	503 Spruce Street.
Macmillan, Julia Theckla	D. C.	600 Maryland Ave., N. E.
Magers, James Ellsworth	Ill.	812½ 11th Street, N. E.
Marsh, Allen Johnson	Ohio	628 E Street, N. E.
Matthews, James Muscoe	D. C.	1109 17th Street.
Mawhinney, Joseph John	Pa.	38 M Street.
McAuley, Hugh Nisbet	D. C.	530 21st Street.
McCabe, John Joseph	D. C.	214 T Street.
McDonald, Joseph Edward	D. C.	628 A Street, N. E.
McElfresh, William H.	D. C.	309 M Street.
McInturff, William Carl	Va.	1434 N Street.
McMahon, Margaret A.	N. Y.	1611 13th Street.
Meads, Eugene	D. C.	101 4th Street, N. E.
Mechlin, Ernest F.	D. C.	3020 Cambridge Place.
Meigs, Maude	D. C.	325 2d Street, S. E.
Merwin, John O.	N. J.	917 Westminster Place.
Meyer, Herbert Alton	Ohio.	118 R Street, N. E.
Michaelis, Frederick H.	Mo.	1816 S Street.
Miller, Elton W.	Cal.	1825 1st Street.
Miller, Frank Tremain	Mich.	226 E Street, N. E.
Moody, Theodore Lyman	D. C.	1512 P Street.
Morgan, Elonzo Tell	W. Va.	1326 10th Street.
Mosher, Edith R.	Mich.	The Cumberland.
Murphy, Lee Orlo	D. C.	82 V Street.
Newbold, Richard Claxton	D. C.	1362 Kenyon Street.
Olcott, Ella Mindwell	Va.	Glencarlyn, Va.
Oleson, John Y.	Iowa.	702 19th Street.
O'Reilly, Edward Phillip	Pa.	41 M Street.

Name.	Legal residence.	City address.
Orton, Warren Seymour	D. C.	Brookland, D. C.
Owen, Frederick Dennison	Conn.	3 Grant Place.
Painter, Joseph Hannum	Pa.	Smithsonian Institution
Panossian, Hagop Anak	D. C.	1300 G Street.
Parsons, John	Ky.	Dept. Comm. and Labor.
Petersen, Georgii Henry	D. C.	1348 Roanoke Street.
Phillips, Adon D	N. Y.	413 R Street.
Pohlmann, Joseph John	N. Y.	3917 Olive Avenue.
Prince, Roy Webster	D. C.	742 New Jersey Avenue.
Purcell, Robert Blaine	D. C.	415 Florida Avenue.
Quinn, George Lawrence	D. C.	16 8th Street, N. E.
Reed, Edward Oliver	D. C.	1216 S Street.
Reed, Theodore Warwick	D. C.	918 18th Street.
Repetti, Joseph S	D. C.	149 B Street, S. E.
Repetti, William Charles	D. C.	404 Seward Square.
Richardson, Sarah May	D. C.	316 4½ Street, S. W.
Robinette, Fred Garfield	D. C.	301 Maryland Ave., N. E.
Rose, Karl	S. Dak.	50 H Street.
Saegmüller, George M	Va.	108 2d Street, S. W.
Schultze, George Louis	R. I.	765 Princeton Street.
Shackleford, Laura	D. C.	924 Maryland Ave., N. E.
Shepherd, Emil Lawrence	Md.	1338 R Street.
Sherwood, Sidney Forsythe	Va.	Alexandria, Va.
Skinner, Percy Hayes	D. C.	1025 22d Street.
Smith, Delos Hamilton	D. C.	1905 F Street.
Smith, Edwin, Jr	Md.	Rockville, Md.
Smith, Harry Locke	N. H.	57 Q Street, N. E.
Smith, Lloyd Lyman	S. Dak.	326 Mass. Avenue, N. E.
Smith, Scott Russell	S. Dak.	326 Mass. Avenue, N. E.
Smoot, Charles Calvert	Va.	Alexandria, Va.
Sperry, John Robertson	Ill.	1358 Yale Street.
Stabler, Harold Brooke	Md.	The Regina.
Stafford, Charles Francis	N. Y.	420 C Street, S. E.
Sterrett, John Adlum	D. C.	Pierce Mill Road, D. C.
Stivers, Arthur Ducat	Wyo.	The Cumberland.
Stonebraker, Harold E	D. C.	645 Mass. Avenue, N. E.
Sugg, Charles R	N. C.	Gov't Printing Office.
Sullivan, Francis Paul	D. C.	1823 Vermont Avenue.
Summy, William Frank	D. C.	1623 R Street.
Taylor, Clarence Dean	Kansas.	222 F Street.
Taylor, Martin Samuel	Ill.	1335 11th Street.
Todd, J. C. Vaughn	Ky.	1011 T Street.
Tompkins, Charles Hook	D. C.	1521 N. Capitol Street.
Townsend, George Leaming	N. J.	1016 15th Street.
Triepel, Emmie M. V	N. C.	780 Harvard Street.

Name.	Legal residence.	City address.
Turkenton, William James	D. C.	1513 33d Street.
Van Vliet, Stewart	D. C.	819 15th Street.
Wanner, Charles R	Pa.	Stratford Hotel.
Wanner, Howard Paul	Pa.	Stratford Hotel.
Waters, Joseph Henry	D. C.	Takoma Park, D. C.
Watkins, Francis B	D. C.	1626 S Street.
Weaver, Robert David	D. C.	2405 32d Street.
Wenderoth, Ernest F.	N. Y.	Bureau of Standards.
West, Frank Hubble	Ky.	Takoma Park, D. C.
Weston, Walter Mead	Iowa.	4420 8th Street.
Wilson, Clarence Paret	Md.	Hyattsville, Md.
Winter, Max W	Neb.	814 A Street, S. E.
Woodward, Mark R	D. C.	408 M Street.
Wychgel, Ettina G	N. Y.	1234 Massachusetts Ave.
Yates, Robert Raleigh	Va.	1608 6th Street.
Zahn, Aaron B	Colo.	1903 G Street.

Special Students.

Adams, Edgar W	D. C.	1252 Columbia Road.
Albert, Anne Adelaide	D. C.	2307 32d Street.
Alden, Anna Grace	D. C.	809 L Street.
Atkinson, Albert S. J	La.	50 Quincy Street, N. E.
Atkinson, Robert Bruce	D. C.	940 French Street.
Bain, Mrs. Mary Wright	D. C.	3606 13th Street.
Baker, Jeannette Eleanor	D. C.	Conduit Road.
Behymer, Glenarvon	Cal.	1907 I Street.
Benfer, James P	Ohio	1352 Emerson Street, N. E.
Benson, Mary Wyse	Md.	1717 De Sales Street.
Berryman, George Rue	D. C.	Treasury Department.
Billings, William Pence	Ind.	949 S Street.
Blasey, Joseph	D. C.	214 Arthur Place.
Boesch, Harry Luther	D. C.	616 E Street, N. E.
Bond, Eugene Webster	Ill.	1714 14th Street.
Booth, Marion Hermoine	Miss.	235 Massachusetts Ave.
Bouvier, Emerson Rexford	Pa.	Navy Department.
Bowden, Emily Harriet	D. C.	921 O Street.
Boyle, Margaret	Pa.	1515 20th Street.
Brandes, August R. F	Cal.	Gov't Printing Office.
Briggs, Victoria J	N. Y.	The Brunswick.
Brown, Thomas	Mass.	323 East Capitol Street.
Brown, William Nelson	Va.	Geological Survey.
Bryson, Laura Elizabeth	Pa.	714 12th Street, N. E.
Bubb, Ralph Simpson	D. C.	719 9th Street.
Bugbee, Mary Florence	D. C.	101 12th Street, N. E.

Name.	Legal residence.	City address.
Burwell, Eilbeck Mason	N. Y.	War Department.
Byrne, Henry Herbert	N. Y.	105 Maryland Ave., N. E.
Caldwell, Winfield S.	N. Y.	1338 R Street.
Camp, Oswald E.	D. C.	2003 Kalorama Avenue.
Carmody, John Doyle	D. C.	1213 Vermont Avenue.
Cary Arthur Franklin	Mass.	Tennallytown, D. C.
Castillo, Emilio John	D. C.	2153 L Street.
Chappell, Sidney Lovett	D. C.	Tennallytown, D. C.
Church, Grace Ella	D. C.	626 N. C. Ave., S. E.
Clark, Gilbert Andrew	D. C.	605 F Street.
Clark, Leon Alvin	Cal.	1325 Corcoran Street.
Clark, Ruth C	Md.	909 R Street.
Clark, Marion	Md.	1329 N Street.
Coblenzer, Elsa	D. C.	The Lenox.
Condron, Gertrude C.	R. I.	816 K Street.
Connolly, Frankanna.	D. C.	1628 Swann Street.
Cook, Richard John	Ark.	1420 New York Avenue.
Corbett, Ella Loretta.	D. C.	929 10th Street.
Crawford, Charlotte M	D. C.	15 N Street.
Croswell, Nannie Barrell.	D. C.	1223 Emerson St., N. E.
Dickerson, Fannie McCune	D. C.	222 North Capitol Street.
Doing, Jennie E	Md.	2220 6th Street.
Doonan, Margaret	D. C.	323 F Street, N. E.
Dorsey, Glenn Cutler.	Neb.	2110 1st Street.
Dorsey, Roscoe J. C.	Pa.	1217 I Street.
Drane, Estella Constance	D. C.	419 Mass. Avenue.
Duffie, John Patton	D. C.	804 I Street.
Eccard, August	D. C.	1230 N. H. Avenue.
Essick, Blanche Lillian.	N. Y.	105 Kentucky Avenue.
Everett, Clarence Vivian	D. C.	Surg. General's Office.
Failyer, Maud Irene	Kansas.	225 5th Street, S. E.
Flueck, Edwin H	Wis.	1629 Q Street.
Ford, Ella May	D. C.	47 R Street.
Fowle, Arthur Clayton	D. C.	446 M Street.
Gailey, Charles Cleaver	Pa.	507 4th Street.
Gielow, Ronald Sawyer	Ala.	910 15th Street.
Gillenwater, Helen C.	D. C.	1609 S Street.
Glennan, Arthur Wyman	D. C.	2435 Columbia Road.
Glück, William Samuel	N. Y.	517 L Street.
Gordon, Spencer	D. C.	3028 Q Street.
Gray, Charles H.	Neb.	712 12th Street, N. E.
Greene, Olive Wirt	Ill.	12 I Street, N. E.
Greenwood, Mary Maud	D. C.	257 N Street.
Gustafson, Robert K.	Ill.	1120 13th Street.
Harrison, Leila C.	D. C.	Chevy Chase, Md.

Name.	Legal residence.	City address.
Hawley, John W	D. C.	1514 R Street.
Heimbeck, Adolph James	Ill.	Treasury Department.
Heiss, Charles August	Pa.	1431 Q Street.
Heron, Katherine C	D. C.	511 2d Street.
Hill, Florence A	N. Y.	935 Westminster Street.
Hillyer, Ethel Clara	D. C.	1365 Whitney Avenue.
Hoberman, Samuel	N. J.	908 12th Street.
Hoyt, Elinor Morton	D. C.	1701 Rhode Island Ave.
Hutchinson, Carleton W	D. C.	1331 G Street.
Hutchinson, Minnie B	D. C.	306 5th Street, S. E.
Jacobs, Laura	D. C.	1407 10th Street.
Jayne, Mattie Filer	Va.	1603 30th Street.
Jenkins, Charles	Ky.	65 N Street.
Jenkins, Oliver Lloyd	Ill.	413 A Street, S. E.
Jewell, Benson Mundy	Ill.	1825 H Street.
Jillson, Sara Rovoudt	Pa.	The Albemarle.
Jones, Lorin Thomas	Mont.	2011 H Street.
Keene, Herbert Newton	D. C.	208 Elm Street.
Knight, George Arthur	Maine	Brookland, D. C.
Knight, Joseph Sheridan	D. C.	426 Florida Avenue.
Koetz, Ketherine	D. C.	1635 13th Street.
Kuhn, Charles W	Ohio	1141 12th Street.
Lawlor, William Deering	D. C.	1020 North Capitol Street.
Lewis, Cecil Claude	Kansas	Senate Annex.
Lind, Ida May	D. C.	1361 Maryland Ave., N.E.
Litzan, Ernest R. A	Md.	Treasury Department.
Locke, John Dexter	N. H.	La Normandie.
Lockie, Joseph A	Maine	1601 Laurel Avenue.
Loughran, Theresa M	N. Mex.	15 9th Street, S. E.
MacLeod, Helen Mar	D. C.	1347 Princeton Street.
Magoffin, Mabel	Kansas	2514 13th Street.
Magruder, Marshall	D. C.	Wisconsin Avenue, Sta. A.
Mahlo, Mrs. Kate L	Ky.	1614 1st Street.
Manghum, James Mason	D. C.	1422 Corcoran Street.
Marcy, Agnes Larned	D. C.	759 Dearborn Street.
Mariner, James Francis	D. C.	1413 G Street.
Maschmeyer, Alfred M. P., Jr	D. C.	1100 10th Street.
McLain, Daniel Joseph	D. C.	1014 I Street.
McLaughlin, Edna M	D. C.	512 B Street, N. E.
Meyers, Minnie M	D. C.	216 A Street, S. E.
Miller, Alvin Wilson	D. C.	2914 N Street.
Morhart, Charles C	D. C.	228 Morgan Street.
Morris, William L	Mass.	815 Vermont Avenue.
Nicholson, Percival H	Md.	309 5th Street, S. E.
Oberlin, Paca	Va.	1238 5th Street.

Name.	Legal residence.	City address.
Olmsted, Elizabeth	Mich...	816 B Street, N. E.
Parker, William Thomas	Neb....	1018 12th Street.
Payne, Lewis Alvah	Md.....	423 1st Street, S. E.
Pearson, Albert A	Neb....	Navy Department.
Pember, Frederick R	Vt.....	1415 K Street.
Perkins, Percy Irwin	Mass...	826 13th Street.
Phelan, Eleanor L	Mich...	The Cairo.
Poole, George	D. C....	1375½ Penna. Ave., S. E.
Priest, Anna May	Pa.....	259 N Street.
Putnam, Charles M	D. C....	47 Franklin St., Anacostia
Rausch, Gustav E	Texas...	Weather Bureau.
Reich, Mary Grace	D. C....	2902 P Street.
Rhee, Seung Mahn.	Korea. .	1234 I Street.
Richardson, Richard Gill	Md.....	817 14th Street.
Riddleberger, Harrison H	Va.....	U. S. Senate.
Rider, William P	Md.....	1607 7th Street.
Ridout, Edith Hieskell	D. C....	1748 N Street.
Robinson, Catharine	Md.....	1017 12th Street.
Royce, Morgan	D. C....	1223 11th Street.
Ryland, Thomas Joyes	Ky.....	The Gramercy.
B.A., Bethel College, Kentucky, 1896.		
Sartor, Lenore Elome	Iowa ...	1928 1st Street.
Saunders, Marie K	Okl. Ty.	The Brunswick.
Saxton, Howard	Neb....	718 12th Street.
Shoemaker, William D	N. Y ...	640 F Street.
Simcoe, Herman L	Ill.....	1101 13th Street.
Smith, Charles Harper	Ind.....	2111 K Street.
Smith, Mabel	D. C....	616 East Capitol Street.
Smith, William Bradford	Mass....	2313 1st Street.
Sparks, Charles Hardy	N. Y....	145 N. C. Avenue, S. E.
Spencer, Nellie S	D. C....	1339 Wallach Place.
Steever, Laura Winfield	Md.....	1333 F Street.
Tilden, Myron Winfield	Conn...	1246 Columbia Road.
Tong, Yu-Nin	China ..	Chinese Legation.
Towers, Frances T	D. C	1717 20th Street.
Torney, John Henry	D. C....	1118 I Street, S. E.
Tucker, Mattie Rose	D. C....	1414 Park Street.
Urbanowicz, John Alonzo	Ohio ...	The Roanoke.
Van Doren, Emma May	D. C....	629 Mass. Avenue, N. E.
Voss, Edna Renard	D. C....	1300 Lydecker Avenue.
Wagner, Simon Peter	Md.....	Colorado Building.
Walkup, May Marguerete	D. C....	7th and Omaha Streets.
Wallace, Elliott Lambert	Ala.....	236 2d Street, N. E.
Walter, May Louise	D. C....	1331 11th Street.
Walther, Henry Jacob	N. J....	1708 F Street.

Name.	Legal residence.	City address.
Webster, George Gerald	D. C	5403 7th Street.
Weddell, Alexander W	Va	1019 P Street.
Wehrell, John Francis	N. J	936 New York Avenue.
Weide, Robert Lee	D. C	502 East Capitol Street.
Wiegand, Gustav W	Minn	900 K Street.
Wilkie, Donald Weare	Ill	3340 16th Street.
Williams, Mack	Iowa	1353 Princeton Street.
Wilson, Anna Catherine	Ill	510 I Street.
Woulfe, Louis Varnum	D. C	1006 6th Street.
Wright, Leonora H	Va	Brent School.

TEACHERS' COURSES.

Archaeology.

Name.	Legal residence.	City address.
Miss Anna May At Lee		1322 S Street.
Miss Mary Anne Aukward		128 D Street, S. E.
Miss Margaret Bayly		1333 11th Street.
Miss Mary Elizabeth Beadle		1244 Maryland Ave., N.E.
Miss Anne Duval Beers		117 4th Street, S. E.
Miss Edna Anne Clark		1424 11th Street.
Miss Adelaide Davis		213 C Street, S. E.
Miss Mary Plutomenci Flannery		1600 1st Street, N. E.
Miss Carl Louise Garrison		1216 L Street.
Miss Flora Louise Hindley		1304 Yale Street.
Mr. Edmondson Hussey		13 Randolph Street.
Miss Nellie Mary Mack		624 A Street, S. E.
Miss Emma Blanche Marshall		634 East Capitol Street.
Miss Beulah E. Parsons		634 Mass. Avenue.
Miss Julia May Rawlings		517 A Street, S. E.
Miss Frances Lee Reeves		730 22d Street.
Miss Margaret Genevieve Silvester		2020 13th Street.

Constitutional Law.

Miss Maud Franzoni English		2012 15th Street.
Miss Bertha Forbes Twichell		610 I Street.

English.

Miss Miriam Jane Austin		728 F Street, N. E.
Miss Elizabeth Birth Baldwin		The Lenox.
Miss Rose Mary Bogan		606 Massachusetts Ave.
Miss Mary E. Bond		818 New Jersey Avenue.
Miss Alice May Clayton		666 E Street, N. E.

Name.	Legal residence.	City address.
Miss Rose Ann Dugan		52 Seaton Street.
Miss Cecilia Pinkney Dulin		1352 Columbia Road.
Miss Larrie May Fuller		718 6th Street, N. E.
Miss Susanna Goode Hickey		1202 Q Street.
Miss Margaret Louisa Hughes		315 B Street, N. E.
Miss Emily Esther Hunt		18 3d Street, S. E.
Miss Ellen Elizabeth Kalb		630 Q Street.
Miss Gertrude Eloise Kelsey		2112 Wyoming Avenue.
Miss Mary Eliza Luttrell		1515 20th Street.
Miss Anna Belle MacIntosh		317 F Street, N. E.
Miss Nellie Ellis Louise McLean		1307 R Street.
Miss Florence Isabelle Morrill		214 5th Street, N. E.
Miss Rebecca E. Shanley		Business High School.
Miss Grace Silvers		910 L Street.
Miss Alice Plant Stromberger		428 8th Street, N. E.
Miss Bessie Eastlack Taylor		1209 21st Street.
Miss Sara Anna Tichenor		1548 New Jersey Avenue.
Miss Mary Chase Walker		1125 11th Street.
Miss Mary Jane Watts		455 Florida Avenue.
Miss Sarah Eskridge White		1420 Kenesaw Avenue.
Miss Clara Louisa Wilson		316 B Street, S. E.
Miss Bertha Alice Yoder		124 11th Street, S. E.

History.

Miss Lizzie Caroline Beller		235 1st Street, N. E.
Miss Grace Eldred Buchanan		4013 8th Street.
Miss Mary Florence Bugbee		101 12th Street, N. E.
Miss Elizabeth Mary Dawes		316 M Street.
Miss Harriett Randall Evans		1926 6th Street.
Miss Jessie Du Bois Fant		321 A Street, S. E.
Miss Mary Woods Frank		1821 Riggs Place.
Miss Kate Maria Gibbs		1216 S Street.
Miss Mary Ella Given		1761 U Street.
Miss Rose Lees Hardy		638 East Capitol Street.
Miss Elizabeth Alice Hummer		638 East Capitol Street.
Miss Bertha Kemp		634 East Capitol Street.
Miss Edith Willard Meloy		118 C Street.
Miss Anna Belle Murphy		1103 10th Street.
Miss Mary Rosetta Parkman		800 E Street, N. E.
Mr. Everett Eugene Stacey		2127 L Street.
Miss Clara Katherine Stutz		1645 13th Street.
Miss May Louise Walter		1331 11th Street.
Miss Cornelia Whitney		47 D Street, S. E.
Miss Myrtie Gertrude Young		927 G Street.

GRADUATE STUDIES.

Master of Arts.

Name.	Legal residence.	City address.
Altschu, John Henry	Mo	2007 G Street.
B.A., 1899; LL.B., 1902., Columbian University. *Topic*—American History.		
Bays, William Webb	D. C	116 4th Street, N. E.
B.A., 1904, Washington and Lee University. *Topics*—Major, English, 27; Minors, German (Faust), French, 21.		
Clark, Alice Marie	D. C	909 R Street.
B.A., 1896, Woman's College. *Topics*—Major, German; Minors, Modern German Literature, History of German Literature.		
Merritt, Ella Arvilla	Minn	154 F Street, S. E.
B.A., 1903, Columbian University. *Topics*—Major, English, 28; Minors, English, 40, 51; Latin, 40.		
Paddock, Rev. Ernest Moorehead	Pa	1723 H Street.
B.A., 1894, University of Pennsylvania. *Topic*—Philosophy.		
Peck, Paul Noble	D. C	1102 P Street.
B.A., 1903, Columbian University. *Topics*—Major, Latin; Minors, Greek, Philosophy.		
Smith, Charles Harper	Ind	2111 K Street.
A.B., 1901, Earlham. A.B., 1902, Haverford. *Topics*—Major, Greek; Minors, Latin, Archæology.		
Spencer, Nellie Scribner	D. C	1339 Wallach Place.
A.B., 1901, Hiram College. *Topics*—Major, Greek; Minors, Latin, English.		

Master of Science.

Allen, Leslie Lyle	N. C	1100 Vermont Avenue.
B.E., 1900, North Carolina College of Agriculture and Mechanic Arts. *Topics*—Major, Mathematics; Minors, Graphics, Applied Mechanics.		
Gerdsen, William Cornelius	Minn	U. S. Patent Office.
B.S., 1898, University of Minnesota. *Topics*—Major, Chemistry; Minors, Electrical Engineering, Geology, Contracts.		
Marsh, Milllard Caleb	N. Y	1017 P Street.
B.S., 1897, Cornell. *Topics*—Major, Analytical Chemistry; Minors, Physiological Chemistry, Bio-Chemistry.		

Name.	Legal residence.	City address.

Mitchell, Evelyn Groesbeeck..... N. Y.... 813 T Street.
B.A., 1902, Cornell.
Topics—Major, Ichthyology; Minors, Entomology, Systematic Entomology, Morphology.

Moore, Charles N..... Ohio.... Naval Observatory.
B.A., 1903, University of Cincinnati.
Topics—Major, Astronomy; Minors, Thermodynamics, Astro-Physics.

Outwater, Raymond..... D. C.... 1312 B Street, S. W.
B.S., 1904, Columbian University.
Topics—Major, Chemistry, 41; Minors, Chemistry, 22; Bacteriology.

Pistorio, Irene Mabel..... D. C.... 2142 G Street.
B.S., 1904, Columbian University.
Topics—Major, Architectural Design; Minors, Archæology, Composition of Architecture.

Swett, Otis Dow..... Ill..... 2007 G Street.
LL.B., 1891; LL.M., 1892; B.S., 1904, Columbian University.
Topics—Major, Organic Chemistry; Minors, Stereo-Chemistry, Electro-Chemistry.

Mechanical Engineer.

Brearley, James Alfred..... Pa. .... 306 10th Street, S. E.
B.S., 1903, Columbian University.
Topics—Major, Mechanical Engineering, 41; Minors, Mechanical Engineering, 40, 43.

Kirk, George Ellis..... Ohio ... U. S. Patent Office.
B.S., 1904, Columbian University.
Topics—Major, Mechanical Engineering, 41; Minors, Mechanical Engineering, 1, 20; Patent Law, Chemistry, 41.

Rippey, Charles Wilson..... N. Y.... 231 12th Street, N. E.
B.S., 1904, Columbian University.
Topics—Major, Mechanical Engineering, 24; Minors, Mechanical Engineering, 40, 41.

Civil Engineer.

Reineck, Robert Haven ... . N. J.... 1212 K Street.
B.S., Rutgers College.
Topics—Major, Civil Engineering, 43; Minors, Civil Engineering, 22, 40.

Thom, William Chester..... D. C.... 702 N. C. Ave., S. E.
B.S., 1904, Columbian University.
Topics—Maior, Civil Engineering, 40; Minors, Civil Engineering, 41, 44, 47.

Electrical Engineer.

Name. Legal residence. City address.

Backus, Cyrus Day..... N. Y... U. S. Patent Office.
Ph.B., 1896; LL.B., 1896, Cornell.
E.S., 1904, Columbian University.
Topics—Major, Electricity; Minor, Chemistry.

Burdick, Allan Corey..... Cal. ... 803 H Street.
B.S., 1899, University of California.
Topics—Major, Electrical Engineering; Minor, Electrical Engineering.

Students in Attendance.

Cain, John R .... Ohio... 716 20th Street.
A.B. 1904, State University of Oregon.
Topic—Thermodynamics.

Foster, Romulus Adams..... D. C.... 2207 Massachusetts Ave.
M.D., 1904, Columbian University.
Topic—Analytical Chemistry.

Graves, Sheldon Heber..... Vt..... 1221 K Street.
B.S., 1904, Columbian University.
Topic—Stereo-Chemistry.

Hanzlik, Stanislav .... Bohemia. 2017 I Street.
Ph.D., 1902, Bohemian University of Prague.
Topics—Astro-Physics, Meteorology.

Kerr, Robert Howard ..... Md..... College Park, Maryland.
B.S., 1903, Oklphoma Agricultural and Mechanical College.
Topic—Organic Chemistry.

Stone, Edna Livingston ..... D. C.... 1618 Rhode Island Ave.
A.B., 1900, Woman's College.
Topic—Middle High German.

Wold, Peter Irving..... Oregon. 716 20th Street.
B.S., 1901; E. E., 1902, University of Oregon.
Topic—Thermodynamics.

Doctor of Philosophy.

Alden, Levi Russell..... D. C.... 809 L Street.
B.A., 1903; M.A., 1904, Columbian University.
Topics—Major, American History; Minors, History of English Law and Mediæval History.

Bassler, Ray Smith..... Ohio... U. S National Museum.
B.A., 1902, University of Cinciunati.
M.S., 1903, Columbian University.
Topics—Major, Paleontology; Minors, Economic Geology and Advanced Zoölogy.

Betts, Philander ..... N. J.... 1405 W Street.
B.S., 1891; M.S., 1895, Rutgers.
E.E., 1903, Columbian University.
Topics—Major, Electricity; Minors, Chemistry and Mathematics.

Name.	Legal residence.	City address.
Church, Calvin Grant	Md.	The Lincoln.

B.S., 1900, Maryland Agricultural College.
M.S., 1902, Columbian University.
Topics—Major, Agricultural Chemistry; Minors, Physical Chemistry and Analytical Chemistry.

Clark, Marion ..... Md..... 1329 N Street.
B.A., 1901; M.A., 1903, Western Maryland College.
Topics—Major, American History; Minors, Constitutional Law and International Law.

Day, Herbert Ernest..... D. C.... 8 Kendall Green.
Ph.B., 1893, Brown University.
M.A., 1895, Gallaudet College.
M.A., 1900, Columbian University.
Topics—Major, English History; Minors, American History and American Literature.

Doan, Mary... ..... Ind..... 1621 Connecticut Ave.
B.S., 1891, Perdue.
B.L., 1892, Earlham.
M.S., 1893, Perdue.
Topics—Major, English; Minors, Philosophy, Sociology.

Doyle, Aida Mary..... Pa. .... 1902 3d Street.
B.S., 1898; M. S., 1899, Columbian University.
Topics—Major, Chemistry; Minors, Agricultural Chemistry and Geology.

Fleshman, Arthur Cary..... Ky..... 117 7th Street, N. E.
B.S., 1884; M.S., 1892, National Normal University.
M.A., 1903, Columbian University.
Topics—Major, Philosophy; Minors, Sociology, Political Science.

Freeman, John Thomas..... ..... D. C.... 1115 East Capitol Street.
B.S., 1883; M.S., 1887, Dartmouth College.
Topics—Major, Economics; Minors, History, Civil Engineering.

Hall, Percival..... D. C.... Kendall Green.
B.A., 1892, Harvard.
M.A., 1893, Gallaudet.
M.A., 1898, Columbian University.
Topics—Major, Pure Mathematics; Minors, Applied Mathematics, Astronomy.

Hau, Carl .... Germany. 1631 19th Street.
M.A., 1902, Columbian University.
Topics—Major, Continental History; Minors, Comparative Politics, International Law.

Hinman, Ida..... Iowa ... 1446 Rhode Island Ave.
B.S., M.S., 1892, Iowa Wesleyan University.
M.A., 1902, Columbian University.
Topics—Major, English; Minors, German, French.

Name. Legal residence. City address.

Kimball, Herbert Harvey..... N. H. .. U. S. Weather Bureau.
B.S., 1889, New Hampshire College of Agricultural and the Mechanical Arts.
M.S., 1900, Columbian University.
Topics—Major, Astro-Physics; Minors, Meteorology, Practical Meteorology.

Lyon, John Marcus Ward, Jr..... N. J.... National Museum.
Ph.B., 1897, Brown University.
M.S., 1900; M.D., 1902, Columbian University.
Topics—Major, Zoölogy; Minors, Neurology, Histology.

Mattern, Louis Wilson..... Pa..... 1349 Q Street.
B.S., 1894, Pennsylvania State College.
Topics—Major, Chemistry; Minors, Bio-Chemistry, Physical Chemistry.

McBryde, Charles Neil..... Va ..... 1521 K Street.
B.S., 1891, University of South Carolina.
B.S., 1892, Virginia Polytechnic Institute.
M.D., 1897, Johns Hopkins University.
Topics—Major, Geology; Minors, Mineralogy, Botany.

McNeil, Hiram Colver..... Ohio ... 1313 H Street.
B.S., 1896; M.S., 1899, Denison University.
Topics—Major, Chemistry, 43; Minors, Chemistry, Electro-Chemistry.

Mills, Joseph Strayer..... Md..... Central High School.
B.A., 1890; M.A., 1893, Western Maryland College.
Topics—Major, Chemistry; Minors, Mineralogy, Physics.

Monaghan, James Cha.les..... Wis.... 1335 F Street.
A.B., 1885; A.M., 1903, Brown University.
Topics—Major, German Literature; Minors, Constitutional Law, International Law.

Newberne, Robert Edward Lee..... Texas .. 914 New York Avenue.
M.D., 1893, Georgetown University.
D.D.S., 1898, Tacoma College of Dental Surgery.
B.S., 1901; M.S., 1901, Columbian University.
Topics—Major, Neurology; Minors, Anatomy, Physiology.

Newton, Elmer Slayton..... Mass ... The Brunswick.
B.A., 1895, Amherst College.
Topics—Major, Bio-Chemistry; Minors, Bacteriology, Organic Chemistry.

Orth, Henry, Jr..... D.C.... 1011 L Street.
M.E., 1893, Lehigh University.
M.S., 1899, Columbian University.
Topics—Major, Physical Chemistry; Minors, Organic Chemistry, Theoretical Chemistry.

Name.	Legal residence.	City address.
Patrick, George Edward	Iowa	Dept. of Agriculture.

B.S., 1873; M.S., 1874, Cornell University.
Topics—Major, Agricultural Chemistry; Minors, Bacteriology, Bio-Chemistry, Extra Advanced Organic Chemistry.

Peake, James Frederick	Va	616 9th Street.

A.B., 1902, Randolph Macon College.
M.A., 1904, Columbian University.
Topics—Major, Latin; Minors, Greek, English.

Phalen, William Clifton	Mass	National Museum.

S.B., 1899; S.M., 1902, Massachusetts Institute of Technology.
Topics—Major, Geology; Minors, Petrography, Paleontology.

Phelan, Warren Waverly	N. Y.	822 Connecticut Avenue.

B.A., 1894; M.A., 1896, Columbian University,
Topics—Major, Comparative Jurisprudence; Minors, German and Continental History, Political Science.

Portner, Edward George	D. C.	1104 Vermont Avenue.

B.S., 1897; M.S., 1898, Columbian University.
Topics—Major, Chemistry; Minors, Physical Chemistry, Mineral Chemistry.

Pressey, Henry Albert	Maine	Colorado Building.

B.S., 1893, Columbian University.
B.S., 1896, Massachusetts Institute of Technology.
Topics—Major, Flow of Water; Minors, Open Channels, Water Works, Mechanical Engineering.

Quick, Oscar	Iowa	U. S. Patent Office.

A.B., 1895; A.M., 1896, Harvard University.
Topics—Major, Astro-Physics; Minors, Meteorology, Astronomy.

Randall, Arthur Theodore	Ill	518 12th Street, N. E.

M.D., 1895, Northwestern University.
M.A., 1904, Columbian University.
Topics—Major, Philosophy; Minors, Advanced Logic, Economics.

Richards, Luther Adolph	Va	1100 New York Avenue.

B.A., 1902; M.A., 1903; M.S., 1904, Columbian University.
Topics—Major, Astronomy; Minors, History of Astronomy, Solar Physics.

Richardson, Edward Elliott	D. C	400 7th Street, S. W.

B.S., 1904; M.D., 1895, Columbian University.
M.S., 1905, The George Washington University.
Topics—Major, Rational Psychology; Minors, Neurology, Physiology, Experimental Psychology.

Shear, Cornelius Lott	Md	Dept. of Agriculture.

B.S., 1897; M.A., 1900, University of Nebraska.
Topics—Major, Botany; Minors, Botany, Geology.

Name.	Legal residence.	City address.
Solyom, Herbert Louis	Md.	U. S. Patent Office.

B.S., 1902; M.S., 1903, Columbian University.
Topics—Major, Astro-Physics; Minors, Economics. Meteorology.

Stockberger, Warner W.	Ohio	3628 Morgan Avenue.

B.S., 1902, Denison University.
Topic—Major, Botany.

Storm, Christian George	Cal.	Navy Department.

B.S., 1898; M.S., 1899, Columbian University.
Topics—Major, Chemistry; Minors, Physical Chemistry, Mineralogy.

Straughn, Martin Norris.	Md.	College Park, Md.

B.S., 1899, Maryland Agricultural College.
M.S., 1902, Columbian University.
Topics—Major, Chemistry, 45; Minor, Chemistry, 21, 23, 24, 26.

Thurston, Ernest Lawton	D. C.	1449 Kenesaw Avenue.

C.E., 1893, Columbian University.
Topics—Major, Applied Mathematics; Minors, Graphics, Statics, Differential Equations.

Waring, Luther Hess	Pa.	Bureau of Corporations.

B.A., 1905, The George Washington University.
M.A., 1904, Columbian University.
Graduate of Lutheran Theological Seminary, Gettysburg, Pa., 1896.
Topics—Major, German History; Minors, Philosophy, Political Science.

Welsh, John Cleveland	Tenn.	229 F Street, N. E.

B.S., 1887, Carson and Newman College.
M.S., 1902, Columbian University.
Topics—Major, Botany; Minors, Chemistry, Zoölogy.

West, Albert Merrill	Mass.	Dept. of Agriculture.

B.S., 1900, Massachusetts Agricultural College.
Topics—Major, Chemistry; Minors, Bacteriology, Physiology.

Wilkinson, Oscar	Miss.	1404 L Street.

M.D., 1896, Tulane University.
Ph.B., 1902, University of Mississippi.
M.A., 1903, Columbian University.
Topics—Major, Physiological Optics; Minors, Therapeutics, Practice of Medicine.

Witherspoon, Thomas Alfred	Tenn.	U. S. Patent Office.

Graduate U. S. Naval Academy, 1883.
LL.B., 1891; M.S., 1897, Columbian University.
Topics—Major, Physical Chemistry; Minors, Chemistry, Electricity.

Summary.

COLUMBIAN COLLEGE:		
Candidates for the B.A. degree	74	
Candidates for the B.S. degree	199	
Special	170	
		443
TEACHERS' COURSES:		
Archæology	17	
Constitutional Law	2	
English	27	
History	20	
		66
GRADUATE STUDIES:		
Candidates for the M.A. degree	8	
Candidates for the M.S. degree	8	
Candidates for the M.E. degree	3	
Candidates for the C.E. degree	2	
Candidates for the E.E. degree	2	
In attendance	7	
Candidates for the Ph.D. degree	44	
		74
Total		583

DEPARTMENT OF MEDICINE.

First Year.

Name.	Legal residence.	City address.
Amick, Louis Burton	W. Va.	Takoma Park, D. C.
Athey, Thomas Franklin	Mo.	3107 Wisconsin Avenue.
Avery, Frederick Scott	Mich.	637 Md. Avenue, N. E.
Bluemfeld, Raymond	D. C.	323 H Street, N. E.
Bradley, Henry Moffatt	S. C.	1007 Mass. Avenue, N. E.
Brooks, Robert Renney	N. Y.	Fort Myer, Va.
Brown, Frank J	Iowa.	32½ Bates Street.
Brown, Wade Hampton	N. C.	748 3d Street.
Bryan, William Alvin	Iowa.	216 North Capitol Street.
Brown, Wiley Gustavus	Texas.	3431 Brightwood Avenue.
Buell, Arthur Whitton	Cal.	2812 13th Street.
Chartters, George C	Va.	713 9th Street.
Castell, Louis Bernard	D. C.	Barnes Hospital.
Dunmire, Roy Franklin	Pa.	1006 B Street, N. E.
Flournoy, Addison Hogul	Md.	2009 1st Street.
Dunn, Joseph Francis	D. C.	1324 Corcoran Street.
Everett, Ernest Day	Mo.	28 T Street, N. E.
Fontaine, Edward Redd	N. C.	725½ 6th Street.
Frey, John Paul	D. C.	1224 30th Street.
Garnett, Algernon Sydney	Va.	1021 Vermont Avenue.
Gehringer, George Matthew	Pa.	1121 15th Street.
Gonzalez, Antonio C., Jr	N. Y.	1417 K Street.
Griffith, Thomas Everett	Pa.	718 4th Street, S. E.
Gwinn, Chester Arthur	Mo.	Fort Myer, Va.
Harper, Bernard Fitzhugh	Va.	Children's Hospital.
Hart, George H	Pa.	2317 1st Street.
Higgins, Daniel W., Jr	Md.	130 11th Street, N. E.
Horgan, Edmund Joseph	D. C.	733 13th Street.
Klugh, George Fred	S. C.	1028 Vermont Avenue.
Lawrence, Charles Solomon	N. C.	617 H Street.
Littlefield, John Ramsay	D. C.	833 4th Street, N. E.
Luttrell, David Harris	Va.	1434 N Street.
Lipman, David Hinckley	N. C.	The Berkshire.
MacKnight, Robert Stanley	D. C.	1765 U Street.
Mata, Carlos	Costa Rica.	1919 K Street.
Maxwell, Maurice Hopkins	Md.	Sibley Hospital.
Molzahn, Herman E.	Minn.	1637 13th Street.
More, Frederick Clinton	Pa.	234 E Street, N. E.
Moyer, Samuel	Pa.	General Land Office.
Neate, John Sweyn	D. C.	3009 Dumbarton Avenue.

Name.	Legal residence.	City address.
Nicolais, Joseph	Pa	Hyattsville, Md.
Noyes, Edward Rogers	D. C	1014 S. Carolina Ave., S. E.
Ong, Harry Alfred	Ohio	917 S Street.
Powell, Charles Elcon	D. C	509 Spruce Street.
Patterson, Orra Edgar	Ill	The Garfield, 13th Street.
Pyne, Herbert Samuel	Utah	1331 L Street.
Quick, Ralph Andre	Va	Falls Church, Va.
Rozzelle, Keith Kistler	N. C	207 8th Street, N. E.
Selinger, Sydney M	D. C	816 F Street.
Sherwood, John Wesley	Md	136 11th Street, N. E.
Simons, Harry E	D. C	212 A Street, S. E.
Smith, Ernest	D. C	510 B Street, N. E.
Smith, Ernest Wellington	W. Va	1004 H Street.
Smith, William Marion	Ky	1119 K Street.
Stilson, Joseph Rock	D. C	640 East Capitol Street.
Stilson, Lewis Francis	Md	237 New Jersey Ave., S. E.
Stephens, Charles Rundle	Ill	1825 H Street.
Tayloe, Harry Marbury	Va	1121 17th Street.
Taylor, Edward	Ala	1013 P Street.
Teeter, Frank Irvin	Mo	810 6th Street.
Tewksbury, William Davis	Col	16 3d Street, S. E.
Thompson, Lewis Royer	Pa	801 New Jersey Avenue.
Turnbull, Samuel Jay	Fla	803 12th Street.
Way, David	D. C	1322 L Street.
Weber, Frederick Clarence, Jr	Ohio	Dept. of Agriculture.
Weidemann, Clarence Conrad	D. C	1237 Princeton Street.
Wheatley, Charles	Md	715 14th Street.
Wheeler, Arthur Joseph	Ill	1014 I Street.
Wilhelm, Joseph	Ill	214 5th Street, N. E.
Willis, Harry Clay	N. C	932 K Street.
Wolfe, James Thruston	Va	1400 K Street.
Wolfe, Rowland Daniel	Md	1517 10th Street.

Second Year.

Anderson, Paul	Ill	617 19th Street.
Barnesby, Walter Raleigh	Ill	The Brunswick.
Biggs, Joseph Rozier	D. C	1930 8th Street.
Bogan, Joseph Borrows	D. C	606 Mass. Avenue.
Bone, George Ward	W. Va	1110 16th Street.
Bower, Charles Franklin	S. Dak	Senate Annex.
Boyd, William Alexander	N. C	The Fredonia.
Bryson, Herbert James	Pa	714 12th Street, N. E.
Burket, Clare William	Pa	1519 Kingman Place.
Carter, Paul Irving	Cal	1418 L Street.

Name.	Legal residence.	City address.
Carr, William Brown	Va.	1418 L Street.
Chapman, John Madison	Md.	The Plymouth Rock.
Chichester, Harry Denison	Texas	725 14th Street.
Chipman, Cline N.	Ky.	1422 11th Street.
Cliff, Benjamin Franklin	N. C.	2411 Pa. Avenue.
Conklin, Coursen Baxter	N. Y	1611 13th Street.
Coster, Leonard M.	D. C.	403 2d Street, S. E.
Darnall, Moses Hubbard	Texas	1717 Riggs Place.
Dent, Wade Gilbert	Md.	1312 12th Street.
Dewey, Christian Henry	Ill.	The Plymouth.
Emery, James Armitage	Md.	The Olympia.
Evans, Edwin Gough	D. C.	27 8th Street, S. E.
Forrer, Herbert Stratford	Ill.	407 2d Street, S. E.
Frazier, Frank Eugene	Wis.	1607 7th Street.
Garton, Alfred Clarke	Ind.	1318 12th Street.
Grant, John Lee	Va.	19 Grant Place.
Grant, Charles Vincent	Pa	The Caywood.
Habel, William P. H.	Pa	618 22d Street.
Hanback, Irvin Leonard	D. C.	606 15th Street, N. E.
Hart, John White	Mass	949 S Street.
Haywood, John Kerfoot	N. Y	1210 T Street.
Hoberman, Samuel	N. J.	908 12th Street.
Holmes, Robert	N. H.	Pension Office.
Hickok, Le Roy W.	N. Y.	500 M Street.
Holden, Fred A.	Mo.	718 12th Street.
Howlett, Howard Henry	D. C.	1313 Wallach Place.
Johnston, Henry Vernon	D. C.	1221 New Jersey Avenue.
Kearney, Henry Walper	Va.	1302 L Street.
Kilgour, Robert Mortimer	Mont.	1210 N Street.
Kline, Lane Bruce	Va.	1211 Q Street.
Lake, Norman Powell	Va.	811 K Street.
Lamkin, Joseph Bayard	Ga.	913 New York Avenue.
Legg, Thomas Henry	Md.	718 12th Street.
Lee, Thomas Alexander, Jr.	Va.	2211 Washington Circle.
Levy, William Victor	N. J.	1339 K Street.
McDaniel, James Madison	S. C.	1119 K Street.
McIver, Evander McNair	N. C.	310 C Street.
Mess, William A.	Ind.	Garfield Memorial Hosp.
Meyer, Henry Adolph	Pa.	212 8th Street, S. E.
Miller, Robert Halsey	Ky.	1207 N Street.
Moffitt, Harry Watson	Ohio.	127 B Street, S. E.
Monk, Frederick Hinton	N. Y.	Dept. Com. and Labor.
Morris, Roy Thomas	Ohio.	1209 O Street.
Nielson, Alexander John	Utah.	1633 19th Street.
Rector, Frank Leslie	Okla.	1331 L Street.

Name.	Legal residence.	City address.
Rock, George Roscoe	N. J.	The Caywood.
Schapiro, Louis	Wis.	740 9th Street.
Sheiry, Dillon	D. C.	237 8th Street, N. E.
Sims, William Carter	La.	1010 B Street, N. E.
Smith, J. Allen	N. Dak.	1023 Vermont Avenue.
Smith, Paul Jones	Kansas.	511 10th Street.
Smith, Thomas Francis	Fla.	The Le Grand.
Stephenson, Eugene T.	Texas.	1382 E Street, N. E.
Stetson, Thomas	D. C.	Nat'l Safe Deposit Co.
Stout, Henry Isaiah	D. C.	207 9th Street, S. W.
Tallmadge, Henry Hobart	Pa.	2924 14th Street.
Tastet, David Walker	D. C.	War Department.
Thomas, William J. G	D. C.	905 O Street.
Tomlin, Timothy Harrington	Mo.	1009 B Street, N. E.
Van Vliet, Frederick C., Jr	N. J.	819 15th Street.
Walker, Emmert Delon	Cal.	1010 H Street.
Wallace, Clifton Robert	Va.	940 9th Street.
Warner, Harry J	Ill.	Dept. of Agriculture.
Waring, John Harvie	Va.	1830 Oregon Avenue.
Watson, Charles Lyman	D. C.	2217 Washington Circle.
Weithas, Richard Charles	N. Y.	Land Office.
Whamond, Frederick Gordon	Ill.	1234 Duncan Street.
Willets, David Gifford	N. J.	1221 N. Y. Avenue.
White, Eben Wesley	N. Y.	1236 11th Street.
Wilson, Edward Comstock	N. Y.	1318 Whitney Avenue.
Yates, Robert J	Va.	1300 Pennsylvania Ave.

Third Year.

Arntzen, Julius L.	Mo.	1016 15th Street.
Battles, Samuel Lee	La.	701 7th Street, N. E.
Beale, Kenneth Foster	Mass.	Branchville, Md.
Beauchamp, Jesse Leaphart	Miss.	1016 15th Street.
Pinco, Louis Henry	N. Y.	1103 C Street, N. E.
Brecht, Nelson Duvall	D. C.	609 22d Street.
Brown, Ernest William	Conn.	1310 Princeton St.
Burnell, William Barry	Oregon.	1519 Kingman Place.
Catts, Samuel Rozier	Va.	Navy Yard.
Clements, Lyman Jairus	Miss.	123 6th Street, N. E.
Clifford, John Sullivan	N. H.	810 12th Street.
Compton, Arthur George	D. C.	1121 Roanoke Street.
Currie, James Daniel	Texas.	1229 New York Avenue.
Davis, Ezra McKnight	S. C.	740 9th Street.
Dollman, Clarence M.	Va.	1000 N Street.
Dorman, John Wesley	Ohio.	706 11th Street.

Name.	Legal residence.	City address.
Edmunds, Meade Randolph	Miss.	1217 K Street.
Forsythe, James Steele	Miss.	18 N Street.
Goss, Ralph Montgomery	Ga.	1519 Kingman Place.
Gow, James Robertson	Ohio.	122 D Street, N. E.
Grayson, Charles Shober	N. C.	1017 K Street.
Hailman, Hubert Victor	D. C.	301 C Street.
Hamilton, Kosciusko	Tenn.	1203 11th Street.
Hankemeyer, Nathaniel W	Mass.	1922 Sunderland Place.
Hardesty, William S	W. Va.	402 Ethelhurst Flat.
Harrison, Charles Alben	Ill.	1335 H Street.
Hartley, Clarence A	Ind.	919 New York Avenue.
Hastings, John Emery	N. Y.	The Cumberland.
Heflebower, Roy Cleveland	D. C.	915 New Hampshire Ave.
High, D. Lee	Md.	416 M Street.
Hill, Paul Stanley	Maine.	The Sherman.
Hooe, Robert Arthur, Jr	Va.	1110 New York Avenue.
Huber, Levi Houston	Pa.	906 I Street.
Humphries, John William	Va.	19 Grant Place.
Jorgenson, H. Christian	N. Y.	Navy Yard.
Kebler, Lyman F	Pa.	1322 Whitney Avenue.
Laughlin, John Royer	Pa.	1460 Corcoran Street.
Lanza, Anthony J	N. Y.	1232 13th Street.
Lund, Herbert Zacharias	Utah	107 2d Street, N. E.
McAfee, Larry Benjamin	Ind.	House of Representatives.
McLean, Frank	D. C.	735 13th Street.
Mebane, William Belson	N. C.	1023 Vermont Avenue.
Middleton, Carroll Sewall	Md.	1402 H Street.
Montgomery, Herbert Bridger	Ohio	230 Massachusetts Ave.
Moore, Mead	Ky.	1307 F Street.
Nutting, Hugh	N. Y.	621 13th Street.
Murdoch, Lester Hughes	Texas	1713 4th Street.
Perry, Benjamin Cissel	Md.	Casualty Hospital.
Phillips, Orlyn Sargent	Neb.	1215 12th Street.
Pinco, Louis Henry	N. Y.	746 9th Street.
Reeves, Arthur F	N. C.	2411 Pennsylvania Ave.
Sheep, William Lloyd	N. C.	711 8th Street.
Smith, William H., Jr	D. C.	1314 Connecticut Ave.
Smith, Stephen Harrison	Va.	801 Duke St., Alex., Va.
Spenser, Armand	N. Y.	1123 11th Street.
Spire, Richard Lee	N. Y.	1120 C Street, S. E.
Stanley, Arthur Camp	Wis.	2330 Massachusetts Ave.
Sterne, Charles Fague	D. C.	1823 Riggs Place.
Stevenson, Earle C	Neb.	1404 L Street.
Sutton, Dallas Gilchrist	D. C.	921 19th Street.
Tasker, Arthur Newman	D. C.	126 C Street, N. E.

Name.	Legal residence.	City address.
Terry, Philip Roy	La.	1437 Kenesaw Avenue.
Titus, Stanley Herbert	Wash.	Northampton Flats.
Towner, Frank H	D. C.	1316 7th Street.
Trent, Joseph Peterfield	Va.	1214 I Street.
Waldecker, Franz Care	Kansas.	2835 15th Street.
Warfield, Walter Adgate	Va.	Columbia Hospital.
Wilcox, Horace Leroy	Pa.	2610 University Place.
Williams, Richard T	D. C.	1319 8th Street.
Winter, Frank Ernest	Maine.	Naval Hospital.
Woods Carl Warren	Vt.	1227 13th Street.

Fourth Year.

Allen, Frank A	Minn.	1533 3d Street.
Ammerman, Charles Clark	N. Y.	911 N. C. Avenue, S. E.
Arthur, Roy Watson	Va.	1117 K Street.
Austin, Samuel Duffie	Miss.	151 C Street, N. E.
Baldwin, Herschel Edward	Ill.	617 19th Street.
Bennett, Robert A	Md.	705 N. C. Avenue, S. E.
Bostick, John Alexander	Ark.	1922 6th Street.
Browne, Rhodric Winfield	Mass.	903 S Street.
Brady, Zadoc Maurice	Md.	Anacostia, D. C.
Bryan, Henry Bohlen	Va.	2220 G Street.
Burch, Edward Warren	Md.	218 I Street, S. E.
Bush, Daniel P	Neb.	1224 11th Street.
Camp, George Hildreth	Pa.	19 8th Street, N. E.
Carswell, Fontaine Lee	Ga.	1115 M Street.
Cowan, Wayne F	Wis.	1229 Princeton Street.
Fisher, Raymond Adams	D. C	595 B Street, N. E.
Foley, Thomas Madden	D. C.	147 Thomas Street.
Franklin, Edmund T. M	Va.	University Hospital.
French, William Joseph	Minn.	1133 24th Street.
Garrison, Philip Eugene	N. J.	1320 I Street.
Graham, Earl Bruce	N. Y.	620 I Street.
Gunning, Edward James	Pa.	815 12th Street.
Haggerty, James Edward	N. Y.	1543½ 3d Street.
Harlan, Tharos	Md.	1308 I Street.
Hart, Frederick Mason	N. Y.	The De Soto.
Hawes, Charles Sumner	Mass.	1474 Chapin Street.
Hayes, Frank Crawford	Ill.	1229 Princeton Street.
Henning, Samuel Carl	N. Dak.	U. S. Jail.
Hillegass, Ross Joseph	Pa.	1326 New York Avenue.
Holland, Josiah Hutton	D. C.	Children's Hospital.
Hovsepian, Armen G	D. C.	919 H Street.
Hudson, William Burrows	Conn.	236 9th Street, N. E.

Name.	Legal residence.	City address.
Hunt, Arthur Leroy	Maine	The Sherman.
Jett, Frank Hubert	Ind.	Wash. Asylum Hospital.
Johnson, Flavius Thomas	Mich.	1442 Florida Avenue.
Jones, Glenn Irvine	D. C.	900 14th Street.
Kemble, Adam	Pa.	University Hospital.
Kurlish, Emil	Iowa.	1101 H Street.
Kuehn, Frederick W	Ind.	1129 5th Street.
Littlepage, William H.	Ark.	The Plymouth.
Lynch, James Mortimer	Texas	1816 S Street.
Martine, Frank Leslie	N. J.	1012 I Street.
McConnell, James Henry	N. Y.	905 Florida Avenue.
Meloy, Arthur Nourse	Md.	937 I Street.
Munroe, David Moffatt	Wis.	1936 14th Street.
Murphy, William Houston	La.	1308 I Street.
Murphy, Timothy Francis	Maine	The Sherman.
Murphy, Joseph Alexander	D. C.	1103 10th Street.
Newton, Elmer Slayton	Mass.	The Brunswick.
Norcross, Alfred C	Pa.	819 Quincy Street.
Osborne, Edward Lee	Ga.	900 14th Street.
Oswell, Charles Arthur	N. Y.	1864 Wyoming Avenue.
Pfender, Charles A	Texas	1302 L Street.
Prevatt, James Thomas	Ga.	U. S. Geological Survey.
Raison, Thomas W	Ky.	The De Soto.
Repetti, Fred	D. C.	527 6th Street, S. E.
Robnett, Ausey Hamilton	Texas	University Hospital.
Rogers, Willis Parrish	Neb.	2217 H Street.
Sawyer, Edward Whitmore	Mass.	1544 Columbia Street.
Sells, George James	Tenn.	The Regina.
Shea, William Edward	Idaho	814 22d Street.
Smith, Lucien Conway	Va.	801 Duke St., Alex., Va.
Speiden, Edgar, Jr.	D. C.	639 Elliott Street, N. E.
Stanton, Gordon	S. C.	1006 Mass. Avenue.
Stiles, George W., Jr.	Okla.	1362 B Street, S. W.
Swain, Benjamin H	N. C	1209 Q Street.
Talbott, John Allan, Jr.	Md.	908 15th Street.
Trow, Walter Gordon	D. C.	414 C Street, S. E.
Waters, Charles Lewis	Md.	1416 New York Avenue.
Watters, Marcus Henry	Vt.	Marine Hospital Service.
West, Richard Thomas	Md.	450 M Street.
Wharton, John James	Md.	1413 I Street.
Whitney, Lawrence Luther	N. Y.	Mooers Forks, N. Y.
Wilkinson, Walter W	Va.	Garfield Memorial Hosp.

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DEPARTMENT OF DENTISTRY.

First Year.

Name.	Legal residence.	City address.
Allen, Clyde William	S. Dak.	1000 M Street.
Brittson, Louis Elder	Ohio	924 14th Street.
Carter, James William	D. C.	150 D Street, S. E.
Detmer, Charles Edwin	N. Y.	Post Office Department.
Eskin, Jacob S	D. C.	945 Maryland Ave., S. W.
Gordon, Oscar Harry	Ga.	11 B Street.
Jackson, George Percival	N. Y.	1365 G Street, N. E.
Lawrence, W. Francis	N. Y.	220 11th Street, S. E.
Martin, Francisco José	Costa Rica.	503 6th Street.
Matthews, Hannibal A	N. C.	608 East Capitol Street.
Macdonald, George B. R	D. C.	612 Erie St., Brightwood.
Pflug, Charles S	Utah	1012 11th Street.
Phillips, John Albert	Neb	1215 12th Street.
Sarchy, Otto	N. Y.	1347 East Capitol Street.
Shea, James Edward	N. Y.	715 12th Street.
Shoemaker, Charles G	D. C.	3116 P Street.
Tyrrell, Austin Edward	Mont.	1325 12th Street.
Vivian, John Taylor	Pa	122 3d Street, S. E.
Wood, J. Frank	Mich.	916 I Street.

Second Year.

Beach, John Edgar	Ky.	834 12th Street.
Brittin, Roy Clay	Tenn.	Post Office Department.
Chapman, Nathaniel	D. C.	1236 11th Street.
Clinton, Ralph Stuart	N. Y.	1106 L Street.
Darling, Austin R	N. Y.	114 6th Street, S. E.
Davidson, Albert Sidney	Va.	120 4th Street, S. E.
Handy, Joseph William	Mo.	68½ Bates Street.
Harrison, Marion Edwyn	Ga.	1106 L Street.
Lambert, Robert Boyd	S. Dak.	735 13th Street.
Love, Samuel Edgar	D. C.	1309 Corcoran Street.
Orrison, Lloyd Foster	Va.	Ashland, Va.
Rivera, Nestor	Porto Rico.	406 H Street.

Name.	Legal residence.	City address.
Taylor, John Winslow	Md.	112 4th Street, N. E.
Vandewall, Ralph I	Wis.	1118 10th Street.
Woodruff, William Henry	N. Y.	124 E Street, N. E.

Third Year.

Ake, Adolphus Blair	Pa.	809 New Jersey Avenue.
Ake, Charles De Warren	Pa.	809 New Jersey Avenue.
Bartlett, Lewis Miller	Mass.	1419 R Street.
Bassford, Adelbert M.	Ill.	356 War Department.
Bullis, Mark Carleton	Mich.	1744 G Street.
Butler, William Earle	W. Va.	The Vivans.
Catts, George Samuel	D. C.	1004 N. H. Avenue.
Chunn, Thomas Maslin	N. C.	207 6th Street, N. E.
Cole, Seth Eugene	Vt.	700 H Street, N. E.
Correll, Ralph S	Ohio	1327 10th Street.
Cortes, Angel Custodio	Porto Rico.	921 8th Street.
De Mass, Ralph Webster	Mich.	1202 North Capitol Street.
Fletcher, George Andrew	N. Y.	801 12th Street.
Francis, William Edwin	D. C.	708 A Street, N. E.
Howser, Upton Shipley	Md.	1506 6th Street.
Humeston, C. Andrew	Conn.	620 I Street.
Lowe, Robert Wellington	Mass.	1422 11th Street.
Maphis, Fred De Witt	Va.	940 New York Avenue.
Mitchell, Fred Arthur	Texas.	409 14th Street, N. E.
Murphy, Don Francis	D. C.	1305 Kenyon Street.
Murray, Fred Grant	D. C.	211 6th Street, S. E.
Neely, Frank Elton	Ind.	216½ Q Street.
Noble, Charles Brown	D. C.	2016 15th Street.
O'Brien, William P	Conn.	119 G Street.
Pollock, Joseph Wood	Ind.	413 G Street.
Potter, Vergne W	Wis.	1723 Pennsylvania Ave.
Prendergrast, James T	W. Va.	616 3d Street.
Rogers, Walter Edwin	Texas.	940 New York Avenue.
Schumacher, John C. R	Mo.	1225 11th Street.
Sproul, Robert L	Pa.	1448 Chapin Street.
Wilkerson, Thomas R	Va.	428 M Street.
Wood, Joseph Henry	D. C.	1133 6th Street, S. W.

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DEPARTMENT OF LAW.

First Year.

Name.	Legal residence.	City address.
Acton, Robert Dow	Ill.	Department of Justice.
Agnew, Albert Conant	Ind. Ter.	807 10th Street.
Albert, Vicente	D. C.	906 14th Street.
Alden, Henry Palmer	D. C.	1308 S Street.
Amiss, Tazewell B., Jr.	N. Y.	The Melton.
Andrews, Edward H.	Mich.	U. S. House of Reps.
Arroyo, Julian A.	D. C.	1317 F Street.
Babcock, William S	D. C.	Ridge Road, Georgetown.
Baker, Arthur George	Mass.	1014 I Street.
Ball, William Asbury	Va.	Dept. of Agriculture.
Ballard, William Reed	Ind.	2818 14th Street.
Barker, William Judson	D. C.	122 13th Street, S. E.
Barth, Fred	Ky.	Post Office Department.
Beall, John C. W.	D. C.	1016 East Capitol Street.
Benning, Thomas	D. C.	931 New York Avenue.
Best, Charles Albert	Kansas.	1033 21st Street.
Blair, Paul Alexander	Conn.	Washington L. & T. Bldg.
Bogue, Albert Frank	Wis.	735 13th Street.
Bowyer, Joseph McCarter	Pa.	Navy Yard.
Braddock, Ernest R.	Md.	803 Mt. Vernon Place.
Brearton, James M.	Ill.	767 10th Street, S. E.
Brott, Robert R.	D. C.	1809 Massachusetts Ave.
Brown, Frank Stern	D. C.	702 N Street.
Brown, Herbert Daniel	N. Y.	3415 Mt. Pleasant Street.
Buffington, William E.	Pa.	1501 11th Street.
Burlingham, Lloyd	N. Y.	903 13th Street.
Burriss, John Murray	Kansas.	1619 L Street.
Calder, Albert Russell	Pa.	917 N. C. Avenue, S. E.
Carnes, Samuel C.	Ohio.	921 G Street.
Carpenter, James de L.	Ala.	1008 I Street.
Chatterton, John L.	N. Y.	Stoneleigh Court.
Christian, Charles F.	Ind.	1108 L Street.
Coles, Harry Carrington	Va.	National Hotel.
Collins, Frederick A.	D. C.	125 10th Street, N. E.
Cosdon, Alfred C.	Md.	511 Mass. Ave.
Craig, Donald A	Pa.	"The Evening Star."
Crain, Kenneth C	Ky.	1829 G Street.
Crane, Robert N	N. J.	916 14th Street.
Davenport, Lewis Howard	N. Y.	2624 University Place.
Day, Rufus Spalding	D. C.	1301 Clifton Street.
Deller, Luster K	Ind.	1641 R Street.

Name.	Legal residence.	City address.
Douglass, Charles E	D. C.	1112 6th Street.
Duffey, Louis Nelson	Va.	Alexandria, Va.
Elson, Ernest B	Neb	903 13th Street.
Evans, Francis Clay	D. C.	414 A Street, S. E.
Faires, Clifford C	Fla.	Chevy Chase College.
Feldstein, Charles	N.Y.	1017 14th Street.
Fitz Gerald, Shepler W	D. C.	3115 Eslin Avenue.
Foreman, Herbert S	Ill.	702 19th Street.
Freeman, Paul	Ohio	1816 S Street.
Gammon, Nathan	Tenn	1328 Mass. Avenue.
Garner, Henceford Noel	Va.	Alexandria, Va.
Garrett, George E	Va.	8 8th Street, S. E.
Garrett, Irving S	Idaho	922 I Street.
Gerry, Charles F	Md.	1244 11th Street.
Gilchrist, Walter S	D. C.	652 Mass. Ave., N. E.
Giles, Louis E	Mich.	1608 15th Street.
Glennan, Arthur Wyman	D. C.	2435 Columbia Road.
Gordon, Alexander	N.Y.	Cedarhurst, Univ. Hill.
Gray, Powell Fred	Mo.	617 H Street.
Gusack, Samuel Victor	N.Y.	921 Westminster Street.
Guyton, Joseph Daniel	Miss.	702 19th Street.
Hallam, Paul Rankin	Ky.	504 Seward Square, S. E.
Hand, Robert G	Miss.	1216 Princeton Street.
Henry, Samuel Joseph	D. C.	327 A Street, N. E.
Henry, William	D. C.	1133 Yale Street.
Hill, William John	Minn.	1419 6th Street.
Hattersley, Ralph M	Ohio	1317 Q Street.
Hawkins, Josias C. L	Md.	804 19th Street.
Helmus, John	Pa.	U. S. House of Reps.
Henkel, Myron Freeman	Ill.	706 20th Street.
Hogg, William Leonard	Colo.	1217 K Street.
Hoover, Dickerson N., Jr	D. C.	413 Seward Square, S. E.
Hunt, Risley G	Tenn	2110 H Street.
Inch, Philip Louis	Va.	1505 Vermont Avenue.
Irion, Harry	Colo.	414 A Street, S. E.
Jones, William P	N. Y.	920 C Street, N. E.
Keeler, Earle Leslie	Mass.	918 H Street.
Kennedy, John Thomas	Pa.	282 Navy Department.
Kerby, James Philip	D. C.	2606 L Street.
Keyser, George Hoffman	D. C.	1823 H Street.
Knapp, Roy Irving	Wash.	714 18th Street.
Langmade, Robert Grover	N. Y.	830 12th Street.
Lees, Fred	Kansas	Dept. of Agriculture.
Lesesne, Claudius P	S. C.	512 13th Street.
Lewis, H. Latane	Md.	1413 G Street.

Name.	Legal residence.	City address.
Lewis, William John	D. C	303 7th Street, N. E.
Loder, Arthur Ernest	Ind.	736 12th Street.
Loving, Hamilton Irving	Va.	Post Office Building.
Lundy, Elmer Johnston	Ark.	1014 17th Street.
Luttrell, James Nathaniel	Va.	1434 N Street.
Manning, Lawrence W.	Ky.	1223 15th Street.
Matteson, William F.	Mich.	2005 Baltimore St., N. E.
Matthews, Alfred Gustav	D. C.	38 Q Street, N. E.
McCathran, Wallach Arthur	D. C.	Department of State.
McIntyre, Donald Knott	N. Y.	Crosby House.
Mead, Thomas L., Jr.	Ohio	3022 U Street.
Mears, George Edwin	Mass	The Albany.
Melby, Charles Beach	Wis	The Horton.
Merrill, Henry P.	D. C.	1760 Willard Street.
Moore, Robert Irwin	Tenn.	Chevy Chase College
Morris, Charles Meyer	Utah.	1240 11th Street.
Montgomery, George	N. Y.	War Department.
Murbach, Jacob F.	Md.	15 S. Payson St., Balto.
Osborn, Sidney Preston	Ariz.	912 S Street.
Packard, Edwin A.	N. Y.	1110 8th Street.
Patchin, Ira Halsey	Iowa.	916 19th Street.
Patterson, Matthew W.	Ark.	1391 F Street, N. E.
Pauly, Harold Albert	Ohio.	1016 11th Street.
Peake, William T.	D. C.	121 10th Street, N. E.
Prettyman, William F.	Md.	Rockville, Md.
Pyle, Lawrence A.	Md.	229 Massachusetts Ave.
Reynolds, Oliver Charlick	N. Y.	1729 P Street.
Richmond, Carl Adams	Cal.	1241 Princeton Street.
Roberts, George F.	Mo.	708 10th Street.
Roberts, Ora Herbert	Texas	708 10th Street.
Roche, Sidney.	D. C.	1325 1st Street, S.W.
Rogers, William S.	Md.	Treasury Department.
Ross, Montague S.	Tenn.	815 12th Street.
Schofield, Henry Kendrick	Miss.	213 5th Street, N. E.
Schommer, John B.	Wis.	1215 I Street.
Salsbury, Burt F.	Va.	Goodwin Apartments.
Seitz, Horace Grant	Pa.	Atlantic Building.
Shifflett, James Glenn	Iowa.	735 13th Street.
Shigenari, Yohoyama	Japan.	1013 L Street.
Smith, Henry Herbert	Md.	Nat'l Safe Dep. Co.
Smith, John A.	Pa.	1014 I Street.
Stadden, Corry Montague	Ohio.	3002 13th Street.
Stanley, Lester Abbott	Texas	3028 O Street.
Starek, Frank Jerome.	Ohio.	609 Cecil Flats.
Steenerson, Benjamin G.	Minn.	1902 H Street.

Name.	Legal residence.	City address.
Stevens, Herbert A.	Mass.	904 12th Street.
Stewart, Edward Smith.	Md.	1121 8th Street.
Sutherland, William A.	D. C.	1700 L Street.
Swank, Walter Ray.	Colo.	710 19th Street.
Taylor, Roland C.	Ohio.	921 G Street.
Thomas, Enfield Hoge.	Va.	918 I Street.
Thomson, William E.	Ill.	Treasury Department.
Tibbets, Frank J., Jr.	D. C.	1636 17th Street.
Toohey, Frank.	Mass.	424 7th Street, S. E.
Tower, Henry Mortimer.	D. C.	2606 University Place.
Tuckerman, Walter Rupert.	D. C.	1515 Mass. Avenue.
Tutwiler, Strudwick Y.	Ala.	1335 F Street.
Tyler, Frank E.	Miss.	Geological Survey.
Van Smith, George Auson.	Minn.	129 Md. Avenue, N. E.
Washington, Richard B.	Va.	Library of Congress.
Weeks, Edward Mitchell.	Pa.	Cleveland Park.
Weir, Taylor Bladen	Va.	Post Office Department.
Welch, Williams.	S. C.	32 Grant Place.
Whippler, Frederic R.	D. C.	1641 R Street.
White, John A.	Va.	1028 Vermont Avenue.
Wiley, Frederick F.	Vt.	1009 13th Street.
Williams, Henry T.	Mass.	1445 Mass. Avenue.
Williamson, James McGowan.	D. C.	1210 S Street.
Wilson, James Perrin.	Mich.	State Department.
Winbourn, Robert Emmett.	Colo.	Post Office Department.
Woodward, Franklin T.	D. C.	915 S Street.
Woolverton, William H.	Miss.	1216 Princeton Street.
Worrall, Lawrence Peter.	Minn.	The Cumberland.
Yeomans, James Hoyt.	D. C.	The Cumberland.

Second Year.

Alden, Levi Russell.	D. C.	809 L Street.
Babcock, James Earle.	D. C.	709 G Street.
Badger, Carl Ashby	Utah.	1331 L Street.
Barker, John Richard.	N. C.	212 8th Street, N. E.
Barnard, Charles Daniel.	N. H.	1116 10th Street.
Barton, Harry Raymond.	S. Dak.	710 19th Street.
Bates, Luther Eugene.	Miss.	23 1st Street, N. E.
Beeler, Adam M.	Ind.	1902 H Street.
Behymer, Glenarvon.	Cal.	1907 I Street.
Blessing, Riley Andrew.	W. Va.	137 Mass. Avenue, N. E.
Bouic, Charles Norman.	Md.	Rockville, Md.
Burnstine, Martin H.	D. C.	214 C Street.
Butz, David Hazen.	Pa.	510 8th Street, S. E.
Booth, Clarence M.	Ind.	1715 De Sales Street.

Name.	Legal residence.	City address.
Busch, Simon Henry	Minn	1101 H Street.
Cheney, Morton Mead	N. H	205 C Street, S. E.
Clark, Frederick F	D. C	504 E Street.
Codington, Arthur H	Ga	150 E Street, N. E.
Coflin, Charles Buxton	S. C	1116 15th Street.
Cohen, Louis	Wis	702 19th Street.
Cooke, Levi	N. Y	1305 30th Street.
Cox, Percy Murtaugh	D. C	Department of Justice.
Crist, Lucien B	D. C	The Rockingham.
Croissant, Victor George	Wash	1717 Q Street.
Cunningham, John Benedict	W. Va	1013 14th Street.
Davids, Berkeley Reynolds	Pa	2212 Massachusetts Ave.
Davidson, Herbert K., Jr	Mass	921 11th Street.
De Woody, Charles F	Ohio	Department of Justice.
Dobbins, Donald Claude	Ill	Post Office Department.
Dresser, Jasper Marion	Pa	The New Willard.
Dunning, Daniel Alfred	Utah	3267 N Street.
Fisher, Arthur Ames	D. C	1718 Corcoran Street.
Flowers, Allen Gilbert	S. C	1224 13th Street.
Ford, Harvey	W. Va	2117 Bancroft Place.
Fowler, Wilbur W	Mass	3409 Holmead Avenue.
Frayser, Frank	Va	Post Office Department.
Fullam, Edwin Winfield	N. J	225 C Street, S. E.
Furbershaw, Walter Louis	N. Y	Pension Bureau.
Garnett, Philip M	N. H	1347 U Street.
George, Horace Reid	Pa	941 O Street.
Goodall, Milo B	Wis	109 15th Street, N. E.
Groomes, Leonard Weer	Md	1405 New York Avenue.
Gunnell, Robert W	D. C	1030 8th Street.
Handy, Wallace Stuart	Del	1321 Q Street.
Harralson, Morris K	Ga	1016 15th Street.
Hayden, Arthur D	D. C	Stoneleigh Court.
Hazard, Elmont Bibb	D. C	320 E Street, N. E.
Hermann, Elbert B	Oregon	1307 Roanoke Street.
Hoch, Homer	Kansas	920 Massachusetts Ave.
Hodges, Lewis	D. C	1607 Kenesaw Avenue.
Hopkins, Fred Merriam	Mich	U. S. Patent Office.
Hurd, Sumner Webster	N. J	427 4th Street.
James, James Charles	Ill	Post Office Department.
Jones, William Parker	Mass	Department of State.
Kent, Frank Joseph	Ind	Loan and Trust Bldg.
Knowles, Elvin Emery	Mass	1231 11th Street.
Kwis, Arthur Frederick	Ohio	1435 Bacon Street.
Law, Frank A., Jr	D. C	1627 14th Street.
Leech, Wilmer R. S	Md	2302 1st Street.

Name.	Legal residence.	City address.
Lerch, Harry F	D. C.	1320 F Street.
Mahon, John Wilfred	Ohio.	1703 New York Avenue.
Malcom, George Arthur	Mich.	1008 Whitney Avenue.
McClurg, Harper James	Pa.	417 Massachusetts Ave.
McGee, Leroy A	Wis.	1215 Lamar Place.
McLean, Donald Holman	N. J.	1715 De Sales Street.
McNamee, Tom C	S. Dak.	Senate Annex.
Meyers, Herbert Walter	Md.	Pension Bureau.
Milhado, Alexander G	Va.	1111 17th Street.
Monaghan, James Charles	Wis	1335 F Street.
Morris, Charles Wesley	D. C.	1334 V Street.
Morris, Jackson	Ky.	Internal Revenue Bureau.
Muhleman, Donald Cassius A.B., Howard University.	D. C.	1512 8th Street.
Munn, Henry Farwell	D. C.	1334 R Street.
Newmyer, Alvin Leroy	D. C.	1320 U Street.
Nissen, Charles Mathias	Ohio.	U. S. Patent Office.
Nixon, John Thomas	N. H.	921 11th Street.
Paddock, William W	Iowa.	1521 Vermont Avenue.
Parsons, George Winfred	Mich.	312 E Street, N. E.
Poe, Charles Kennedy	D. C.	1517 20th Street.
Prince, Earle Seaton	D. C.	742 New Jersey Avenue.
Quigley, Richard J. F	N. Y.	506 1st Street.
Reed, Edward Leckey	Ohio.	1003 F Street.
Rhoads, William L	Pa.	2834 Brightwood Avenue.
Richardson, Daniel Judson	N. Y.	727 13th Street.
Sams, Eldon Elbert	Iowa.	728 6th Street.
Sanders, Franklin O	Pa.	712 10th Street.
Schauer, Fred Hayes	Cal.	2812 13th Street.
Sell, John Carlisle	D. C.	139 C Street, N. E.
Shelton, Leonard G	Miss.	1741 G Street.
Shepherd, Arthur Charles	Wis.	Hyattsville, Md.
Shipper, Alva Hamilton	W. Va.	211 C Street.
Shore, Howard James	N. C.	1002 H Street, N. E.
Simpson, James T	N. H.	Treasury Department.
Sleman, Paul Edwin	D. C.	3114 16th Street.
Smith, James Cheetham	Pa.	1208 East Capitol Street.
Staples, Eugene W	Maine.	814 11th Street, N. E.
Steele, Benjamin Ulen	Ky.	303 E Street, N. E.
Stern, Morris	Wis.	The Lincoln.
Stetson, Frank	D. C.	1324 12th Street.
Strong, Shepard	Vt.	1539 I Street.
Swingle, Edwin Allan	D. C.	807 T Street.
Taggart, Giles Russell	N. J.	Dept. of Com. and Labor.
Tait, George Lester	D. C.	610 Tenn. Avenue, N. E.

Name.	Legal residence.	City address.
Tilden, Myron Winfield	Conn.	1246 Columbia Road.
Towles, Therrett	D. C.	2416 14th Street.
Veley, Omar Jay	N. Y.	1369 Emerson Street.
Voorhiis, Charles Doty	N. J.	The Cairo.
Walker, Allan Elliott	D. C.	3140 Q Street.
Walker, Horace	Chile.	Chilean Legation.
Wallace, Reuben Staten	D. C.	206 Elm Street.
Wallis, William James	N. H.	1435 Bacon Street.
Wilmot, Wilson Eardley	N. Y.	2224 F Street.
Weitzel, Fred William	Ky.	1317 Q Street.
Wilmoth, Grover C.	Texas.	6 I Street.
Whitney, Gorham Folsome	Mich.	120 4th Street, S. E.
Williams, James Dawson	Md.	1327 10th Street.
Woods, Walter Orr	Kansas.	913 Massachusetts Ave.
Woodwell, William Herbert	N. H.	418 Bond Building.

Third Year.

Alderson, George Price	W. Va.	1200 O Street.
Armstrong, Ernest P.	Iowa	711 K Street.
Baldwin, Julius Lyman	N. Y.	1466 Bacon Street.
Barrett, Jesse William	Mo.	1715 De Sales Street.
Beller, James William	W. Va.	The Roanoke.
Biggs, John Sherman	Kansas.	28 Seaton Street.
Bone, Leonie	Ill.	Pension Office.
Bradley, Charles Hamilton	D. C.	2013 Q Street.
Bradley, Thomas Chiles	S. C.	1007 Mass. Ave., N. E.
Buettner, Philip	Wis.	915 H Street.
Burkett, John M.	Ind.	1902 H Street.
Candamo, Manuel Rafael	Peru.	1305 Rhode Island Ave.
Carpenter, Henry Fayette	Wis.	1012 13th Street.
Chase, Enoch Aquila	Kansas.	Home Life Building.
Clark, Paul Maltby	Colo.	1721 Q Street.
Cole, Charles Orlando	Okla.	311 F Street, N. E.
Crowell, William B.	Ohio.	The Melrose.
Cull, Judson Thomas	D. C.	114 2d Street, S. E.
Cutting, Silas Henry	Mich.	Pension Office.
Dahl, Arthur L.	Kansas.	1537 I Street.
Day, Leonard	Mass.	The Brunswick.
Douglass, Lloyd	D. C.	1112 6th Street.
Edelstein, Samuel	Wis.	702 19th Street.
Ellison, William Bascom	Tenn.	Navy Department.
Ferris, Otho Leonard	Iowa.	1902 H Street.
Ford, Edgar Werner	N. Y.	The Portner.
Fox, Carlton	N. J.	The Portner.
Gaddess, Eugene L.	Va.	1419 R Street.

Name.	Legal residence.	City address.
Gaskill, James R., Jr	N. C.	The Magnolia.
Gates, Otis Haskell	Fla.	1306 13th Street.
Goode, Mark	Ill.	1319 Emerson Street.
Graves, J. Morris	Mo.	Agricultural Department.
Gregg, John William	Va.	1320 F Street.
Griesbauer, John A., Jr	D. C.	1324 U Street.
Griggs, Irving Elmon	D. C.	614 Pa. Ave., S. E.
Hall, Mortimer Beecher	Md.	Law Department.
Hanes, Harvey Earlton	Va.	1119 K Street.
Hathaway, Alvin Dolph	Ky.	General Land Office.
Hellerstedt, Carl John	Tenn.	1218 12th Street.
Hengstler, Herbert C.	Ohio.	38 Florida Avenue.
Hertford, Frederick R.	D. C.	2926 14th Street.
Hickox, Birdette P.	Mich.	1311 13th Street.
Hills, Ralph Warren	Ohio.	The Marlborough.
Hindman, Philip Rea	Pa.	1715 De Sales Street.
Holland, Michael Joseph	Mass.	3316 Mt. Pleasant Street.
Hubbard, Frank Hobson	D. C.	1804 17th Street.
Huff, Thomas Salisbury	N. Y.	1645 K Street.
Hurd, Walter Clarence	Utah	814 22d Street.
Hutchinson, George A.	Md.	927 F Street.
Imbrie, Robert Whitney	D. C.	1701 Q Street.
James, Charles Grant	Ohio.	1237 10th Street.
Janney, Laurence Aquila	D. C.	1671 31st Street.
Johnson, Walter Slicer	Wash.	1746 Willard Street.
Jordan, Cornelius Hughes	Tenn.	817 12th Street.
Keller, Albert Kearl	Iowa.	The Windsor.
Kelly, Gilbert Walker	D. C.	2702 13th Street.
Kelly, Guy Edward	S. Dak.	Senate Annex.
Keener, John W.	Tenn.	1325 11th Street.
Knowlton, John Weelington	Mass.	2135 G Street.
Lavelle, Thomas Daniel	Mass.	
Lee, John Augustus	Wash.	1902 H Street.
Leet, Alfred Boyan	D. C.	1405 G Street.
Linton, Irwin Heffenstein	D. C.	1825 2d Street, N. E.
Marine, Clarence Leroy	Neb.	The Portner.
Martin, Charles Herbert	N. C.	1528 I Street.
Maught, John Andree	Md.	The Magnolia Flats.
Maul, A. George	Ohio.	1703 New York Avenue.
McCormick, Alexander H., Jr.	Va.	2910 14th Street.
McMahon, John Patrick	D. C.	1441 S Street.
Mebane, William Blaine	N. C.	330 E Street, S. W.
Moore, Frederick McC.	Md.	2515 14th Street.
Moore, Langdon	N. Y.	1755 P Street.
Morse, Howard Moore	Mass.	U. S. Patent Office.

Name.	Legal residence.	City address.
Moses, Edmund Quincy B.S., Harvard University.	Mass...	1114 14th Street.
Moulton, Harry Dodge	D. C....	1213 Yale Street.
Musgrave, Thomas Cebern.	Texas ..	1931 K Street.
Naff, Clarence Raymond	Kansas.	The Brunswick.
Naylor, Horace Strait	D. C....	407 Massachusetts Ave.
Newmyer, Edwin Jonathan	Mo. ...	Dept. of Agriculture.
Nye, Luther Bertram	D. C....	936 O Street.
Pepper, Irvin St. Clare	Iowa ..	1227 13th Street.
Pérez, Filemon Enriquez	P. I. ...	The Litchfield.
Peterson, Joseph H.	Idaho ..	1240 11th Street.
Pharr, Robert Baxter.	N. C....	1313 K Street.
Povey, Richard Granville	Conn...	U. S. Patent Office.
Price, James Hardy	S. C....	222 Kentucky Avenue.
Quinter, William Keyes	D. C....	3322 14th Street.
Richards, George Lawrence	D. C....	1225 Conn. Ave.
Rickard, James Bickle	Hawaii .	1521 O Street.
Rhodes, Fred Burnett	Md. ...	1466 Bacon Street.
Sagmeister, Joseph	Ohio ...	1715 De Sales Street.
Schley, George Bigelow	Ohio ...	1336 W Street.
Samuels, Edwin Francis	Mass. ..	1445 Massachusetts Ave.
Searle, William Daniel	N. Y. ..	1131 12th Street.
Shaffer, Charles Henry.	Md.....	1303 Clifton Street.
Snell, Arthur Veeder	N. Y. ..	3016 Dumbarton Avenue.
Sperl, William John	Mass. ..	3573 Morgan Avenue.
Spinks, Edgar	Miss....	General Land Office.
Stutler, Delmas Clay	W. Va..	1225 New Jersey Avenue.
Tellier, Julius Arthur	Vt.....	1408 Sheridan Avenue.
Transom, Frederick	Pa.....	2121 1st Street.
Waite, William Franklin	Ala.....	14 T Street.
Webb, William Pressley	Va.....	1528 I Street.
Whitcomb, David	Mass...	The Shoreham.
Whitford, George Langdon	N. H....	11 1st Street, N. E.
Williams, Hugh, Jr.	N. Y....	1327 10th Street.
Wilmeth, Warner Lambeth	Texas...	1246 Maryland Ave., N.E.
Wilson, Charles Herbert	N. Y....	U. S. Patent Office.
Woods, Orin Hazen	Wyo....	1204 O Street.
Wrenn, Herbert Alpheus	Va.....	3 Wisconsin Avenue.
Young, Eugene	D.C....	804 7th Street.

Special Students.

Allen, Joe Brown	Tenn...	1221 Mass. Avenue, N. E.
Atchison, Henry Francis	Wash...	Pension Office.
Barton, Harry Raymond..	S. Dak..	230 New Jersey Avenue.
Bourne, Edward Russell	N. Y....	The Grafton.

Name.	Legal residence.	City address.
Castellot, José, Jr.	D. C.	Mexican Embassy.
Chatterton, Robert Treat	N. Y.	612 14th Street.
McNary, William Sarsfield	D. C.	1205 New Hampshire Ave.
MacNulty, William Garfield	Ariz.	Chevy Chase, Md.
Mears, George Edwin	Mass.	The Albany.
Warner, Brainard Henry, Jr.	Md.	The Kensington.

Review Students.

Andrews, Burt W.	S. C.	1527 T Street.
Barr, Robert Mann	Mass.	1010 Massachusetts Ave.
Beck, Benjamin Wexler	Tenn.	1610 New Jersey Avenue.
Berry, Eugene Benton	D. C.	1300 Pennsylvania Ave.
Bielaski, Alexander Bruce	Md.	1902 H Street.
Browne, Frederick W	Iowa.	1126 10th Street.
Cowhick, Oscar Glenn	Wyo.	1224 I Street.
Davis, Charles William	Kansas.	1428 Q Street.
Engel, Richard Drum	D. C.	1634 3d Street.
Francis, John, Jr.	Kansas.	1300 L Street.
Garner, Harry Summers	Pa.	Light House Board.
Gordon, Erskine	D. C.	6 Cooke Place.
Grant, William John	D. C.	816 11th Street.
Jenks, Royal Granville	La.	951 Massachusetts Ave.
Johnson, Alan M.	Mass.	U. S. Patent Office.
Klawans, Samuel Thomas	D. C.	818 H Street, N. E.
Layne, Carney Milton	Ohio.	1103 13th Street.
Loud, Charles Sumner	Mich.	2120 G Street.
Loyd, Elbert Hilles	N. Y.	2111 1st Street.
McCarteney, Hartwell C.	D. C.	3123 Dumbarton Avenue.
Martin, Harold Hudson	Kansas.	1300 L Street.
Milans, Calvin T.	D. C.	1232 N. H. Avenue.
Morgan, John D.	Ohio	1338 Yale Street.
Mothershead, James F. H.	D. C.	1507 R Street.
Myers, Albert Perley	Kansas.	920 Massachusetts Ave.
Parkes, George Preston	Wis.	915 N Street.
Plumly, Walter Preston	D. C.	Atlantic Building.
Powell, Grahame Hume	N. Y.	816 15th Street.
Proctor, Alfred Waters	Mass.	U. S. Patent Office.
Reinoll, William Parker	D. C.	912 F Street.
Roome, Henry Sherburne	N. Y.	1240 Princeton Street.
Russell, William H.	Pa.	1240 Princeton Street.
Sharretts, David E.	Pa.	1820 Cincinnati Street.
Scott, Thomas Allen	Mo.	1236 B Street.
Sherier, James Thomas	D. C.	Conduit Road, D. C.
Shibley, James George	Kansas.	1300 L Street.
Thomas, Henry Green	Va.	2025 8th Street.

Name.	Legal residence.	City address.
Warner, Lee Frost	Minn	1902 H Street.
Waterman, Jason	Mich.	64½ Bates Street.
Watson, Harry Lee	N. J.	1123 11th Street.

Patent Law.

Bradley, James Clifford	Ill.	Patent Office.
Burroughs, Robert W.	N. Y.	213½ E Street.
Day, Leonard	Mass.	The Brunswick.
Drown, Wilbur Fisk	La.	War Department.
Eccleston, Noel Ennalls	Md.	Patent Office.
Fuller, Walter Marshall	Mass.	32 Thomas Street, N. E.
Fowler, Owen Henry	D. C.	Columbian Building.
Holliger, Jesse E.	Ind.	921 R Street.
Hollis, Walter Munroe	Mass.	614 F Street.
Irving, Benjamin	Oregon.	General Land Office.
Leach, Boynton McConnel	Va.	1804 M Street.
McClair, Charles	Kansas.	Patent Office.
Moore, Langdon	N. Y.	1755 P Street.
Morgan, John D.	Ohio.	1338 Yale Street.
Parker, Clarence Le Roy	D. C.	1113 East Capitol Street.
Pitts, George Bassett	D. C.	507 E Street.
Porter, Minott Eugene	Ohio.	1517 35th Street.
Proctor, Alfred Waters	Mass.	U. S. Patent Office.
Redrow, Walter L.	D. C.	57 New York Avenue.
Stack, Joseph Courtney	D. C.	507 3d Street.
Swenarton, Waitstill H.	N. J.	U. S. Patent Office.
Vrooman, Edwin Evert	Md.	602 F Street.
Wilson, Charles Herbert	N. Y.	U. S. Patent Office.
Wyman, William I.	Mass.	U. S. Patent Office.

Review Patent Law.

Fenning, Karl Herbert	D. C.	25 Grant Place.
Marine, Richard Elliott	Ind.	University Club.

Auditor.

Hammond, Frank Earl	Iowa.	6 B Street, N. E.

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DEPARTMENT OF JURISPRUDENCE AND DIPLOMACY.

Candidates for the Degree of Master of Laws.

Name.	Legal residence.	City address.
Barnum, Zenus Francis	D. C.	La Normandie.
Benson, Fred Hodges LL.B., Columbian University.	N. Y.	407 T Street.
Brosius, Samuel Martin LL.B., Columbian University.	D. C.	McGill Building.
Caldwell, Winfield S	N. Y.	1338 R Street.
Engel, Richard D	D. C.	1634 3d Street.
English, Walter C LL.B., Columbian University.	D. C.	2907 P Street.
Flournoy, Richard W LL.B., Columbian University.	Md.	State Department.
Freebey, Harriet LL.B., University of Michigan.	Mich.	1008 K Street.
Frost, Paul Delevan LL.B., Columbian University.	Iowa.	926 Westminster St.
Graham, Rutherford H LL.B., Columbian University.	W. Va.	1412 15th Street.
Gulliksen, Henry LL.B., Columbian University.	N. Dak.	War Department.
Harris, Nathaniel A.B., M.A., Baylor University. M.A., Yale University. LL.B., Columbian University.	Texas	The Montgomery.
Henderson, W. Bennett A.B., Princeton Collegiate Institute. LL.B., Cumberland University, Lebanon, Tenn.	Ky.	22 Grant Place.
Hyman, Harry LL.B., Columbian University.	Texas	1416 15th Street.
Jedlan, John Wenceslaus LL.B., Illinois College of Law. LL.B., University of Michigan.	Ill.	The Brunswick.
Kuehne, August E LL.B., University of Minnesota.	Minn.	1231 11th Street.
Layne, Carney Milton L.L.B., Columbian University.	Ohio.	1103 13th Street.
Logan, Charles Bryce LL.B., Kansas City School of Law.	Mo.	900 M Street.
Merritt, Leonard Atkins LL.B., Columbian University.	Minn.	154 F Street, S. E.
Miller, Clarence A B.L., Kansas City School of Law.	Mo.	1236 11th Street.
Person, Robert S LL.B., Columbian University.	S. Dak.	3112 Q Street.

Name.	Legal residence.	City address.
Pratt, Frederick E.	D. C.	24 Iowa Circle.
LL.B., Columbian University.		
Shore, Francis Marion	Ohio	1225 New Jersey Ave.
LL.B., Columbian University.		
Smith, Homer A. A	Colo.	741 Princeton Street.
Swayze, J. Clarke	Kansas	734 12th Street.
A.B., Ph.C., A.M., LL.B., Kansas University.		
Wesseler, William Julius	Mo.	103 I Street.
A.B., Washington University.		
LL.B., St. Louis Law School.		

Special Students.

Bailey, Emma Reba	Ga	The Bancroft.
LL.B., LL.M., Washington College of Law.		
LL.M., D.C.L., Columbian University.		
Barnum, Charlotte Cynthia	Conn.	The Carolina.
A.B., Vassar College.		
Ph.D., Yale University.		
Newell, Robert Curry	Va.	St. James Hotel.
Taniguchi, Fumihiko	Japan	15 E Street.

Auxiliary Student.

Tong, Yu-Hin	China	Chinese Legation.

Candidates for Master of Diplomacy.

Caldwell, Winfield S.	N. Y.	1338 R Street.
New York Law School.		
Calhoun, Clarence C.	Ky.	Colorado Building.
Dorsey, Roscoe John C.	Pa.	The Chapin.
LL.B., LL.M., Georgetown University.		
Gow, Bernard Arthur	Mo.	921 8th Street.
LL.B., Missouri State University.		
LL.M., Columbian University.		
William Jewell College.		
Green, Andrew Jordan	Va.	1343 Clifton Street.
LL.B., National University.		
LL.B., LL.M., Georgetown University.		
Heimbeck, Adolph James	Iowa	Treasury Department.
LL.B., State University of Iowa.		
LL.M., Illinois College of Law.		
McElroy, Robert J. F.	Pa.	512 T Street.
Oberlin, Paca	Va.	1238 F Street.
LL.B., LL.M., Columbian University.		
Plumacher, Blas Guillermo	Venezuela.	711 12th Street.
Saxton, Howard	Neb.	103 I Street.
LL.B., University of Nebraska.		
LL.M., Columbian University.		

Candidates for the Doctorate in Civil Law.

Name.	Legal residence.	City address.
Bryan, Frederick Carlos.....	Ohio...	Colorado Building.
B.A., Western Reserve University. LL.B., Cincinnati Law School. LL.M., M.Dip., Columbian University.		
Dorman, James Hervey.....	Ky.....	Department of State.
LL.B., Center College. LL.M., M.Dip., Columbian University.		
Farley, John William	Tenn...	Bureau of Corporations.
LL.B., Vanderbilt University. LL.M., M.Dip., Columbian University.		
Gaw, Albert Cornelius.....	Minn...	Kendall Green.
A.M., Gallaudet College. A.B., A.M., William Jewell College. M.Dip., Columbian University.		

Review Students.

Beck, Benjamin Weller.	Tenn...	1610 New Jersey Avenue.
B.S., Chattanooga Normal University. LL.B., LL.M., Columbian University.		
Colladay, Edward Francis.....	Kansas .	1320 F Street.
LL.B., LL.M., Columbian University.		
Lindberg, Edward John.....	Ark....	120 D Street, N. E.
Linkins, William H..... ...	D. C....	800 19th Street.
LL.B., LL.M., Columbian University.		
Mitchell, Andrew S	Ohio....	921 8th Street.
Tait, Galen Lamar.....	Md.....	The Portner.
LL.B., LL.M., D.C.L., Columbian University.		
Thomas, Henry Green.....	Va.....	1025 8th Street.
LL.B., LL.M., Columbian University.		

Summary.

Candidates for the LL.M. degree	26
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Degrees Conferred in 1904.

HONORARY.

Doctor of Divinity.

Rev. Thomas Smallwood Samson.

Doctor of Laws.

Rev. Randolph Harrison McKim,
D.D., Washington and Lee University, 1871.

John B. Larner,
LL.B., Columbian University.

Albert Vander Veer,
M.D., Albany Medical College, 1869.
A.M., Williams College, 1882.
Ph.D., Union and Hamilton, 1883.

Fabian Franklin,
Columbian University, 1869.
Ph.D., Johns Hopkins University, 1880.

Master of Laws.

Sanford H. Steele,
LL.B., George Washington University, 1904 (as of class of 1871).

Master of Arts.

William Bruce King,
Columbian University.

Alexander T. Stuart.

IN COURSE.

Doctor of Philosophy.

William Macon Coleman, District of Columbia.
A. B., A. M., University of North Carolina.
Thesis: A Refutation of Mommsen's Theory on Caesar's Agrarian Policy.

Frank Van Vleck, California.
M. E., Stevens Institute of Technology.
Thesis: Improvements in Ship Construction.

Andrew Wilson, District of Columbia.
B. S., B. O., B. A., M. A., Kansas Normal College; LL. B., LL. M., Georgetown University; M. L., D. C. L., Yale University.
Thesis: Influence of John Marshall on the Political History of the United States.

Master of Arts.

Levi Russell Alden, District of Columbia.
B. A., Columbian University.

Gladys Ames, District of Columbia.
Thesis: The Rise of Federalism, 1774-1814.
B. A., Columbian University.
Thesis: The Development of the Lyric in Pre-Shakespearean Drama.

Audason Alexander Charles, Indiana.
B. A., Indiana University.
Thesis: A Study of the Phenomenon of Deliquescence in Alcohol Vapor.

Sawyier Wilson Partee, Kentucky.
A. B., Georgetown College, Ky.
Thesis: The Egyptian Debt.

James Frederick Peake, Virginia.
A. B., Randolph-Macon College.
Thesis: The Agon in the Comedies of Aristophanes.

Arthur Theodore Randall, Illinois.
M. D., Northwestern University.
Thesis: The Progress of Man into Freedom as Developed in Hegel's Philosophy of History.

Nora Leland Stabler, Maryland.
A. B., Swarthmore College.
Thesis: Some Causes and Effects of the Romantic Movement in England.

Luther Hess Waring, Pennsylvania.
Thesis: The Historical, Economical, and Sociological causes leading to the Enactment of the Kranken-, Unfall-, Alters- und Invalliditats-Versicherungsgesetze des Deutsche Reichs.

Harold Preston West, Maine.
B. A., Bowdoin College.
Thesis: Hugo's Romanticism; Studied in Hernani and Ruy Blas.

Master of Science.

Huron Willis Lawson, Michigan.
B. S., Michigan State Agricultural College; M. D., Columbian University.
Thesis: The Morphology of the Neuron.

Elliott Coues Prentiss, District of Columbia.
B. S., M. D., Columbian University.
Thesis: A Study of the Nissl Granules.

Luther Adolph Richards, Virginia.
B. A., M. A., Columbian University.
Thesis: Comets.

Civil Engineer.

James Douglas Cleary, District of Columbia.
B. S., Columbian University.
Thesis: A Design for the Filtration of the Water Supply of Laurel, Maryland.

Guillermo Gustavo Fischer, Cuba.
A. B., B. S., Havana University.
Thesis: A Sewage Disposal Plant for the City of Trinidad, Santa Clara Province, Cuba.

John Blake Gordon, District of Columbia.
B. S., Columbian University.
Thesis: A System of Sewers and a Sewage Disposal Field for Rockville, Md.

Doctor of Civil Law.

Patrick Henry Loughran, New York.
LL. B., Georgetown University; LL. M., Columbian University.

Master of Diplomacy.

Frederick Carlos Bryan, Ohio.
A. B., Western Reserve; LL. B., Cincinnati College; LL. M., Columbian University.

Fred Morris Dearing, Missouri.

James Hervey Dorman, Jr., Kentucky.
LL. B., Centre College, Kentucky; LL. M., Columbian University.

John William Farley, Tennessee.
LL. B., Vanderbilt University; LL. M., Columbian University.

Albert Cornelius Gaw, Minnesota.
A. B., A. M., William Jewell College; A. M., Gallaudet College.

Samuel Herrick, Pennsylvania.
LL. B., LL. M., D. C. L., Columbian University.

Luther Mason Walter, Kentucky.
B. E., National Normal University; LL. B., LL. M., D. C. L., Columbian University.

Master of Laws.

Oscar Glenn Cowhick, Wyoming.
LL. B., Columbian University.

Isaac Cephas Foster, Virginia.
LL. B., Columbian University.

Bernard Arthur Gow, Missouri.
LL. B., Missouri State University.

Edmund Archus Hutchison, Texas.
LL. B., Georgetown University.

Royal Granville Jenks, Louisiana.

Paul Victor Keyser, Iowa.
LL. B., Columbian University.

William Leonard Larash, Pennsylvania.
LL. B., Columbian University.

William Henry Linkins, District of Columbia.
LL. B., Columbian University.

Thomas Price Littlepage, Indiana.
LL. B., Columbian University.

Robert J. F. McElroy, Pennsylvania.

Andrew S. Mitchell, Ohio.

Paca Oberlin, Virginia.
LL. B., Columbian University.

Harold Jack Pack, Pennsylvania.
LL. B., Columbian University.

Edwin Milburn Sabin, Wisconsin.
LL. B., Columbian University.

Howard Saxton, Nebraska.
LL. B., University of Nebraska.

Albert Lorenzo Thompson, Iowa.
LL. B., Columbian University.

Henry Green Thomas, Virginia.
LL. B., Columbian University.

Harry Lee Watson, New Jersey.
A. B., Brown University; LL. B., Columbian University.

Master of Patent Laws.

Benjamin Franklin Adams, New Hampshire.
A. B., Dartmouth College; LL. B., Columbian University.

Edward Renick Alexander, Ohio.
M. E., Cornell University; LL. B., Columbian University.

Edward Dunning Anderson, District of Columbia.
LL. B., Columbian University.

Robert Mann Barr, Massachusetts.
B. S., Worcester Polytechnic Institute; LL. B., National University.

Arthur Harrison Brown, Massachusetts.
S. B., Massachusetts Institute of Technology; LL. B., Columbian University.

Edgar James Wallace Clarkson, District of Columbia.
LL. B., Columbian University.

Arthur Woodruff Cowles, Connecticut.
LL. B., National Law School.

Frederick Lincoln Edmands, Massachusetts.
S. B., Massachusetts Institute of Technology.

Karl Herbert Fenning, Connecticut.
A. B., Trinity College, Hartford.

Alan M. Johnson, Massachusetts.

Hartwell Cragin McCarteney, District of Columbia.
A. B., A. M., Lafayette College; LL. B., Columbian University.

Richard Elliott Marine, Indiana.
A. B., Johns Hopkins University.

Calvin Tarkington Milans, District of Columbia.
LL. B., Columbian University.

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S. B., Worcester Polytechnic Institute; LL. B., LL. M., Columbian University.

Albert Franklin Nathan, Jr., Missouri.
S. B., Massachusetts Institute of Technology; LL. B., National University.

Michael O'Donoghue, California.
LL. B., Hastings College of Law, California; LL. M., National School of Law.

Gilbert Powers Ritter, Illinois.
C. E., Cornell University; LL. B., National University.

John Franklin Robb, Kansas.
LL. B., LL. M., National University.

Sidney Fuller Smith, Colorado.
M. S., Columbian University; LL. B., LL. M., National University.

Fred Brown Whitney, Illinois.
A. B., Williams College; LL. B., Northwestern University.

Bachelor of Laws.

Sidney De Witt Adams, North Dakota.
B. S., University of Minnesota.

Zenus Francis Barnum, Maryland.

Robert Root Bennett, Indiana.

Fred Hodges Benson, New York.

George Augustus Berry, District of Columbia.

Alexander Bruce Bielaski, Maryland.

Harry Wallace Blair, Missouri.

Samuel Martin Brosius, District of Columbia.

Evans Browne, District of Columbia.

John Schaaff Cadel, New York.

Oliver Clinton Carpenter, South Dakota.

Alonzo Bradley Chatfield, Jr., District of Columbia.

Hilbert Perry Copeland, Ohio.

Charles Maurice Cram, Maine.
A. B., Leland Stanford, Jr., University.

John Washington Davidge, District of Columbia.
A. B., Harvard University.

Charles William Davis, Kansas.

Leslie Ammerton Davis, New York.
Ph. B., Cornell University.

Orville Ray Ely, Illinois.

Henry Charles Finkelstein, District of Columbia.

Richard Wilson Flournoy, Jr., Maryland.

Blake Franklin, Illinois.
William John Fritsche, Ohio.
Paul Delavan Frost, Iowa.
Leslie Canfield Fuller, Michigan.
Bond Parker Geddes, Nebraska.
Erskine Gordon, District of Columbia.
Rutherford Hunter Graham, West Virginia.
William Russell Graham, District of Columbia.
Henry Gulliksen, North Dakota.
Nathaniel Harris, Texas.
A. B., A. M., Baylor University; A. M., Yale University.
Carl Hau, Germany.
Bynum Ernest Hinton, Arkansas.
B. S., Quachita College.
Benjamin Irving, Oregon.
Royal Granville Jenks, Louisiana.
Oliver Perry Jones, Texas.
William Wilbur Keblinger, Virginia.
Samuel Thomas Klawans, District of Columbia.
Daniel Albert Knapp, Iowa.
Fred Henry Kruse, Ohio.
Carney Milton Layne, Ohio.
Boynton McConnel Leach, District of Columbia,
B. S., Columbian University.
Leon Brooks Leavitt, Maine.
A. B., Bowdoin College.
John Jerome Lightfoot, District of Columbia.
Lewis Forest Lindal, New York.
Edward John Lindberg, Arkansas.
Charles Sumner Loud, Michigan.
Elbert Hilles Loyd, New York.
A. B., Colgate University.
Ray Mann, Kentucky.
Harold Hudson Martin, Kansas.
A. B., Midland College.
Mahlon Curtis Masterson, California.
Leonard Atkins Merritt, Minnesota.
James Raymond Moore, Alabama.
Robert S. Person, South Dakota.
Frank W. Peterson, Michigan.
James McPherson Proctor, Maryland.
James Roy Raley, Oregon.
Carl McLean Rogers, Illinois.
Henry Sherburne Roome, New York.
William H. Russell, Pennsylvania.

Thomas Allen Scott, Missouri.
James Thomas Sherier, District of Columbia.
Joseph Tyler Sherier, District of Columbia.
James George Shibley, Kansas.
Hubert Marcey Snow, District of Columbia.
James Garfield Stanley, South Dakota.
A. B., University of Minnesota.
James Orlando Tripp, Ohio.
Meyer Clyde Wagner, Texas.
Amasa James Ward, Iowa.
Lee Frost Warner, Minnesota.
Israel Emerson Willey, Utah.
Jesse Henry Wilson, Jr., District of Columbia.
A. B., Cornell University.
Thomas Lee Woolwine, California.
LL. B., Cumberland University.

Doctor of Medicine.

Albert Allemann, District of Columbia.
A. B., Gymnasium of Soleure, Switzerland.
Bathurst Browne Bagby, Virginia.
Grant Samuel Barnhart, Pennsylvania.
Hugh Arbuthnot Brown, New Jersey.
A. B., Princeton University.
John R. Buck, Maine.
Heber Butts, Missouri.
William Earl Clark, Jr., District of Columbia.
H. Noble Crandall, Maryland.
Frederick William Didier, North Carolina.
Amelio A. Dutari, Panama.
A. B., Bogota; B. S., Paris.
Forrest F. Fadeley, Virginia.
James Grant Fisher, Pennsylvania.
Robert Walter Frischkorn, Pennsylvania.
Homer Gifford Fuller, Connecticut.
Ph. B., Yale.
John L. Gorny, Ohio.
Thomas Reeder Gough, Maryland.
B. S., Maryland Agricultural College.
Joseph W. Halford, North Carolina.
Louis H. Hanson, Wisconsin.
A. B., Harvard University.
Richard Cooke Harley, Maryland.
Francis Edward Harrington, Virginia.
Montgomery Earle Higgins, Maryland.

John Alvin Holmes, District of Columbia.
Montafix Wilson Houghton, District of Columbia.
Charles Wilbur Hyde, Ohio.
Laurence Maxwell Hynson, District of Columbia.
Samuel Augustus Jones, Ohio.
Carlisle P. Knight, District of Columbia.
Thomas Linville, North Carolina.
Patrick Hamilton Lloyd, Maryland.
William Earl Manville, Tennessee.
Herbert Everard Martyn, District of Columbia.
Carroll Hackney May, Virginia.
Adolph Monroe, Maryland.
Frederick Erskine Montgomery, District of Columbia.
Arthur Lapham Murray, New York.
Luther Clarence Neill, Tennessee.
Egil Thorbjorn Olsen, Illinois.
Ph. G., University of Illinois.
William Francis Patten, North Dakota.
George Peterson, Maryland.
A. B., Maryland Agricultural College.
Llewellyn Powell, Virginia.
Milton Hickox Prosperi, District of Columbia.
John Chester Pyles, Maryland.
Harry Sebastian Reger, Ohio.
Robert Conrad Ruedy, Virginia.
William Schulze, Louisiana.
Roy Ernest Seitz, Illinois.
Harry T. Smith, Pennsylvania.
Richard Lightburn Sutton, Missouri.
William Henry Syme, Virginia.
Joseph Lawn Thompson, District of Columbia.
Frederick Yates, District of Columbia.
M. D., Howard University; LL. B., LL. M., National University.
William Glenn Young, Tennessee.

Doctor of Dental Surgery.

Charles Turk Bassett, New York.
Albert James Tait Beatty, Delaware.
Edward Elwell Belford, Ohio.
Vivian Pratt Berry, Virginia.
Charles Lucien Bovee, District of Columbia.
Louis Marshall Cuvillier, District of Columbia.
William James Elzey, Maryland.
James Arthur Fluckey, Illinois.

Louis Samuel Glenn, New York.
Corbin Harriss, Maryland.
John Wesley McMichael, Massachusetts.
Benjamin Jacob Madert, District of Columbia.
John Madert, District of Columbia.
D. D. S., Howard University.
William Armstrong Marschalk, Jr., Florida.
Archibald Louis Miller, District of Columbia.
Herbert Ashton Moore, West Virginia.
Julian Pack, Pennsylvania.
Clement Dowd Rozzelle, North Carolina.
Arthur Millard Trivett, North Carolina.
Barrett Prettyman Willson, Maryland.

Bachelor of Arts.

Henry Bradshaw, District of Columbia.
Harry Ludwig Colestock, Pennsylvania.
Royal Wilbur France, New York.
Ethel Louise Gallagher, District of Columbia.
James Ewin Lamb, District of Columbia.
Catharine Virginia McIlhenny, Georgia.
Paul Noble Peck, District of Columbia.
Van Albert Potter, District of Columbia.
Charles Le Roy Swindell, North Carolina.

Bachelor of Science.

Constance Elizabeth Adams, Massachusetts.
Cyrus Day Backus, New York.
Ph. B., LL. B., Cornell University.
Ellen Klapp Brandenburg, Pennsylvania.
Sheldon Heber Graves, Vermont.
Albert Holle Homrighaus, District of Columbia.
George Ellis Kirk, Ohio.
Raymond Outwater, District of Columbia.
Edward Elliott Richardson, District of Columbia.
M. D., Columbian University.
Charles Wilson Rippey, New York.

Bachelor of Science in Architecture.

Irene Mabel Pistorio, District of Columbia.

Bachelor of Science in Chemistry.

Clair Wesley Fairbank, Minnesota.
Christian Arthur Manning, Pennsylvania.

Walter Otheman Snelling, District of Columbia.
Otis Dow Swett, Illinois.
LL. B., LL. M., Columbian University.

Bachelor of Science in Civil Engineering.

John Brognard Shinn, Jr., District of Columbia.
William Chester Thom, District of Columbia.

Bachelor of Science in Electrical Engineering.

Henry Ellis Hughes, District of Columbia.

Degrees Conferred at Winter Convocation, 1905.

IN COURSE.

Doctor of Philosophy.

Warren Waverly Phelan, New York.
B. A., M. A., Columbian University.
Thesis: An Historical Sketch of the Criminal Law of Louisiana from the Founding of the Colony to the Establishment of the State.

Master of Science.

Edward Everett Richardson, District of Columbia.
D. D., B. S., Columbian University.
Thesis:

Master of Laws.

Richard Drum Engel, Massachusetts.
LL. B., Columbian University.

Doctor of Medicine.

Guy Stark Saffold, Maryland.

Bachelor of Arts.

Luther Hess Waring, Pennsylvania.

Bachelor of Science.

Frederick Denison Owen, Connecticut.

Doctors of Philosophy.

During the years 1894 to 1905, inclusive, the University has conferred the degree of Doctor of Philosophy, after examination and the presentation and public defense of a thesis, upon the following persons:

1894.

Edward Farquhar, (Greek)

Thesis: Elements of Unity in the Homeric Poems. (Conservative Review, vol. iii, June-September, 1900.)

Walter Scott Harshman, (Theoretical Astronomy)

M. S., 1892, Columbian University.

Thesis: Investigation of the Motion of the Pericentre of Deimos. (Astronomical Journal, Boston, vol. xiv, pp. 145-148, 1894.)

Professor Frank Hall Knowlton, (Botany)

B. S., 1884; M. S., 1887, Middlebury.

Thesis: The Flora of the Laramie Group and Allied Formations. (Not published.)

Claude Augustus Oscar Rosell, (Chemistry)

M. A., 1881, University of Pennsylvania; LL. B., 1886, Georgetown University.

Thesis: Investigation of the Properties of Ferric Acid. (J. Am. Chem. Soc., vol. xvii, pp. 760-769, 1895.)

1895.

George Wesley Hamner, (History)

B. A., 1882, M. A., Hiawassee College; LL. B., 1885, University of Alabama; LL. M., 1886, Georgetown University.

Thesis: Researches upon the Government of the Creek Indians. (Not published.)

1896.

Edward Clarke Hudson, (Greek)

B. A., 1884, M. A., 1894, Hiawassee College; M. A., 1894, Columbian University.

Thesis: Investigation into the Use of the Genitive Case in Greek. (Not published.)

Rev. James Stephen Lemon, (Psycho-physics)

B. A., 1864; M. A., 1867, Wesleyan University, Middletown, Conn.

Thesis: The Skin Considered as an Organ of Sensation. (Published separately, 1898, 70 pp.)

1897.

Professor Charles Arthur Hollick, (Palaeobotany)

Ph. D., 1879, Columbia College.

Thesis: Palaeobotany of the Yellow Gravel at Bridgeton, N. J. (Not published.)

John Scott Johnson, (Philosophy)
B. S., 1893; M. A., 1894, Columbian University.
Thesis: The Influence of French Thought on the Formation of the Constitution of the United States. (Not published.)

Timothy William Stanton, (Palaeontology)
B. S., 1883; M. S., 1895, University of Colorado.
Thesis: A Comparative Study of the Lower Cretaceous Formations and Faunas of the United States. (Jour. of Geology, pp. 1-49, September-October, 1897.)

1898.

Cabell Whitehead, (Chemistry)
B. M., 1885, Lehigh University; M. S., 1895, Columbian University.
Thesis: A Study of the Tellurides; Their Formation and Chemical Properties. (Not published.)

1900.

Eugene Byrnes, (Physical Chemistry)
B. A., 1884, Michigan University; LL. B., 1887; LL. M., 1888, Columbian University.
Thesis: Experiments on the Direct Conversion of the Energy of Carbon into Electrical Energy. (Not published.)

Rev. Benjamin Alfred Dumm, (Philosophy)
B. A., 1886; M. A., 1889, Western Maryland College.
Thesis: The Concept of Self in the Analysis of Experience. (Not published.)

Professor Charles Russell Ely, (Chemistry)
A. B., 1891; A. M., 1897, Yale College.
Thesis: Investigation of the Phenomenon of Deliquescence and the Capacity of Salts to Attract Water Vapor. (Not published.)

Ernestine Fireman, (Chemistry)
M. S., 1898, Columbian University.
Thesis: The Action of Phosphonium Iodide on Tetra and Penta Chlorides. (Am. Chem. Jour., 30, 116-133, 1903.)

Charles Moore, (American History)
A. B., 1878, Harvard; M. A., 1898, Columbian University.
Thesis: The Northwest under Three Flags. (Published separately by Harper & Bros., New York, 1900, 402 pp.)

1901.

William Hamilton, (American History)
B. A., 1891, Moravian College, Pennsylvania; M. A., 1894, Columbian University.
Thesis: The Expansion of Russia to the Eastward. (Not published.)

Chohei Shirasu, (Economics)
Graduate, 1893, Doshisha University, Japan; A. M., 1899, Yale University.
Thesis: The Development of Commerce in Japan and its Effect on Civilization. (Summary of Commerce and Finance for December, 1901, Bureau of Statistics, U. S. Treasury Department, pages 2227-2315.)

1902.

Rev. Frank Leighton Day, (Anthropology)
B. A., 1891, M. A., 1896, Roanoke College; B. D., 1895, Vanderbilt University.
Thesis: Did the Semites Pass through a Totem Stage? (Not published.)

Nevil Monroe Hopkins, (Chemistry)
B. S., 1899, M. S., 1900, Columbian University.
Thesis: Some Experiments on Electrolytic Conductivity with Reference to the Ionic Theory. (Not published.)

1903.

Edwin Allston Hill, (Chemistry)
A. B., A. M., Yale University; M. S., Columbian University.
Thesis: The Constitution of Certain Halogen Oxy-acids as inferred from Thermo-Chemical Data. (Not published.)

William Mather Lamson, (Architecture)
B. S., C. E., Columbian University.
Thesis: Iron and Steel Domes. (Not published.)

Thomas Malcolm Price, (Biochemistry)
B. S., Maryland Agricultural College; M. S., Columbian University.
Thesis: The Influence of Varying Strength Solutions of Formaldehyde on some of the Enzymes of Animal Origin.

Harriet Richardson, (Zoology)
A. B., A. M., Vassar College.
Thesis: Contributions to the Natural History of the Isopoda. (Proc. U. S. Nat. Museum, 27, 1-89, 1904, and Bull. U. S. Fish Com., pp. 47-54, Sept. 17, 1903.)

1904.

William Macon Coleman, (History)
A. B., A. M., University of North Carolina.
Thesis: A Refutation of Mommsen's Theory on Caesar's Agrarian Policy.

Frank Van Vleck, (Mechanical Engineering)
M. E., Stevens Institute of Technology.
Thesis: Improvements in Ship Construction.

Andrew Wilson, (American History)
B. S., B. O., B. A., M. A., Kansas Normal College; LL. B., LL. M., Georgetown University; M. L., D. C. L., Yale University.
Thesis: Influence of John Marshall on the Political History of the United States.

1905.

Warren Waverley Phelan, (Comparative Jurisprudence)
B. A., M. A., Columbia University.
Thesis: An Historical Sketch of the Criminal Law of Louisiana from the Founding of the Colony to the Establishment of the State.

DIRECTORY

OF

OFFICERS OF GOVERNMENT, ADMINISTRATION, AND INSTRUCTION.

The letter in brackets following the name indicates to what Department of the University the officer belongs : A, Arts and Sciences ; M, Medicine ; D, Dentistry ; L, Law and Jurisprudence ; P, Politics and Diplomacy ; H, Hospital Staff. The number indicates the page of the Catalogue on which may be found the full name, degrees and titles.

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ALLISON, I. [A, 34] 800 L St
ANTHONY, G. A. [A, 17] The Dupont
ASH, P. [A, 28, 33, 57] 1620 Riggs Pl
AUSTIN, O. P. [P, 173] 1620 Mass. Ave
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BASSETT, C. T. [D, 146] 1129 17th St
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BENSON, J. H. P. [D, 139] 1107 9th St
BETTS, P. [A, 28, 33] 1405 W St
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BLAIR, H. P. [L, 151] Colorado Building
BOVÉE, C. L. [D, 146] The Rochambeau
BOVÉE, J. W. [M, 109] 1404 H St
BRANDENBURG, E. C. [L, 151] 1634 6th St
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COOK, O. F. [A, 28] Department of Agriculture
COPELAND, E. P. [M, 110] The Rockingham
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FREEBEY, H. [A, 18] 1008 K St
FRISBY, E. [A, 28, 33] 1607 31st St
GALLAUDET, E. M. [*Trustee*, 12] Kendall Green

GALLINGER, J. H. [*Trustee*, 12] U. S. Senate
GILL, T. N. [A, 27] Cosmos Club
GOODALL, M. B. [L, 17] 109 15th St., N. E.
GORE, J. H. [A, 27, 33, 57] 2210 R St
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HELLER, J. M. [M, 110] 1510 H St
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HILL, E. A. [A, 28, 33, 57] 1221 K St
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HOLCOMBE, J. W. [P, 173] 1829 Corcoran St
HOLLOWAY, T. C. [M, 110] University Hospital
HOLMES, C. W. [*Assistant Treasurer*, 12] 1868 Cal. Ave
HOOE, A. B. [H, 111] 1110 N. Y. Ave
HOPKINS, N. M. [A, 28, 33, 57] 1718 H St
HORNBLOWER, J. C. [A, 57] 1518 H St
HOWE, W. W. [P, 15] Hennen Bldg., New Orleans, La
HOYLES, N. W. [L, 151] Toronto, Canada
HUGHES, R. M. [L, 151] Norfolk, Va
JACKSON, V. B. [M, 110] The Brunswick
JOHNSON, W. G. [L, 151] 1827 16th St
JEWETT, H. M. [M, 110] 1234 14th St
KEITH, O. L. [A, 34, 57] 24 Irving St., Cambridge, Mass
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KNAPP, M. A. [P, 15] Stoneleigh Court
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LATIMER, J. W. [L, 17] 3127 Dumbarton Ave
LAWSON, H. W. [M, 110] Department of Agriculture
LEGG, T. H. [M, 18] 718 12th St
LE MERLE, E. L. [M, 110] 2011 Q St
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LITTLE, R. M. [M, 110] 103 11th St.. S. E.
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LUCKE, H. J. [A, 33] 2217 N St
MACATEE, H. C. [M, 110] 1116 13th St
MACFARLAND, H. B. F. [*Trustee*, 12] 1816 F St
MACVEAGH, W. [*Trustee*, 12] 1719 Mass. Ave
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MCKIMMIE, O. M. [M, 110] The Valois
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MILLER, G. B. [M, 110] 1325 H St
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NEEDHAM, C. W. [*President*, 12, 13] Stoneleigh Court
NEWLANDS, F. G. [*Trustee*, 12] U. S. Senate
NICHOLS, J. B. [M, 109] 1331 N St
NOYES, T. W. [*Trustee*, 12] 1730 N. H. Ave
OUTWATER, R. [A, 34] 1312 B St., S. W.
PAINTER, G. S. [A, 34] 531 18th St
PARKER, M. M. [*Trustee*, 12] 1020 Vermont Ave
PEAKE, J. F. [A, 34] 616 9th St
PECK, P. N. [A, 34, 57] 1102 P St
PEELLE, S. J. [L, 151] The Concord
PETER, A. [L, 151] 3014 N St
PHILLIPS, W. F. R. [*Dean;* M, 109] 1607 16th St
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PRENTISS, D. W. [M, 110] 1315 M St
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ROGERS, J. D. [M, 110] 721 8th St
RUFFIN, G. M. [M, 110] 1335 H St
RUFFIN, S. [M, 109] 1335 Conn. Ave
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SHUTE, D. K. [M, 109] 1719 De Sales St
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SMITH, H. A. A. [L, 18] 741 Princeton St
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TAYLOR, L. H. [M, 110] Geological Survey
THOMPSON, H. C. [D, 139] 118 C St
THOMPSON, J. F. [M, 109] 804 17th St
THOMPSON, J. L. [M, 110] University Hospital
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TRAIL, W. H. [D, 139] 612 13th St
TUCKER, H. ST. G. [*Dean;* L, 151; P, 173] 1812 H St
VANCE, W. R. [L, 151] The Cumberland
VAN RENSSELAER, J. [M, 109] 2 Thomas Circle
VAN VLECK, F. [A, 28, 33] 1837 M St
VEDITZ, C. W. A. [A, 28, 33; P, 173] 922 14th St
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WELLER, F. R. [A, 33] 408 C St., S. E.
WELLINGTON, J. R. [M, 110] 1706 R. I. Ave
WELSH, J. C. [A, 33] 229 F St., N. E.
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WHITE, W. A. [M, 109] Gov't Hosp. for the Insane
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WOLFF, F. A. [A, 28, 33] 1429 R St
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WRIGHT, C. D. [P, 173] Worcester, Mass
YARROW, H. C. [M, 109] 814 17th St

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Arizona	2	Nebraska	14
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Bohemia	1	New Jersey	24
California	11	New Mexico	1
Chile	1	New York	98
China	1	North Carolina	25
Colorado	9	North Dakota	3
Connecticut	10	Ohio	57
Costa Rica	2	Oklahoma Territory	4
Delaware	1	Oregon	5
District of Columbia	425	Pennsylvania	82
Florida	5	Peru	1
Georgia	13	Philippine Islands	1
Germany	1	Porto Rico	2
Hawaii	1	Rhode Island	3
Idaho	4	South Carolina	12
Illinois	41	South Dakota	14
Indian Territory	1	Tennessee	17
Indiana	23	Texas	23
Iowa	25	Utah	9
Japan	2	Venezuela	1
Kansas	25	Vermont	9
Kentucky	26	Virginia	86
Korea	1	Washington	7
Louisiana	7	West Virginia	20
Maine	11	Wisconsin	25
Maryland	91	Wyoming	4
Massachusetts	50		
Michigan	22	Total	1,452
Minnesota	19	Auxiliary students	13
Mississippi	18		
Missouri	23		1,465

RECAPITULATION.

Members of the Faculties and Teaching Staff:		
Department of Arts and Sciences—		
Division of Graduate Studies	37	
Columbian College	45	
Division of Architecture	22	
Department of Medicine—		
Faculty of Medicine	64	
Faculty of Dentistry	16	
Department of Law and Jurisprudence	20	
Department of Politics and Diplomacy	22	
		226
Duplicates		60
Total		166
Students:		
Department of Arts and Sciences	583	
Department of Medicine	298	
Department of Dentistry	66	
Department of Law	466	
Department of Jurisprudence and Diplomacy	52	
Total		1,465

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